

# ***Micro Hi-Fi Component System***

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Operating Instructions



**MDLP**



***CMT-SE7***

## WARNING

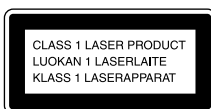
### To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

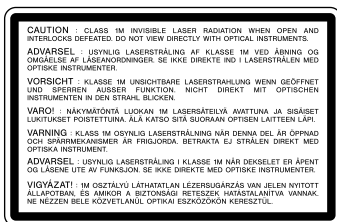
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

US and foreign patents licensed from Dolby Laboratories.



This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

The following caution label is located inside the apparatus.



Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.



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This system incorporates Dolby<sup>®</sup> Digital and DTS<sup>®</sup> decoder system.

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\*\* Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.

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## How to use this manual

- This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.
- Front panel display examples in this manual are based on operation with the lid open. Similar messages appear during operation with the lid closed.
- The following symbols are used in this manual.




Symbol	Meaning
	Functions that can be used with DVD VIDEOS
	Functions that can be used with VIDEO CDs
	Functions that can be used with Audio CDs or Super Audio CDs
	Functions that can be used with MP3* audio tracks
	Functions available for JPEG files







\* MPEG1 Audio Layer3

## Playable discs

You can play back the following discs on this system. Other discs cannot be played back.

### List of playable discs


Format of discs	Disc logo
DVD VIDEOS	
VIDEO CDs	
Audio CDs	

Format of discs	Disc logo
Super Audio CDs	 SUPER AUDIO CD
MD	
CD-R/CD-RW (audio data/MP3/JPEG files)	   

The “DVD VIDEO” logo is a trademark.

## Region code of DVDs you can play on this system

Your system has a region code printed on the back of the unit and will only play DVDs labelled with identical region code.

DVDs labelled  will also be played on this system.

If you try to play any other DVD, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD, no region code indication may be labelled even though playing the DVD is prohibited by area restrictions.

## Discs that this system cannot play

- CD-ROMs (except for extension “.MP3”, “.JPG”, or “.JPEG”)
- CD-Rs/CD-RWs other than those recorded in the following formats:
  - music CD format
  - video CD format
  - MP3/JPEG format that conforms to ISO9660\*1 level 1/level 2, Joliet or Multi Session\*2
- Data part of CD-EXTRAS\*3
- Multi-channel areas of Super Audio CDs
- EXTRA data part of Super Audio CDs

continued

- DVD-RWs in VR mode (DVD-RWs created in VR (Video Recording) mode allow the contents to be programmed or edited.)
- DVD-ROMs, DVD-RAMs
- DVD Audio discs
- A DVD with a different region code
- A disc that has a non-standard shape (e.g., card, heart)
- A disc with paper or stickers on it
- A disc that has the adhesive, cellophane tape, or a sticker still left on it
- A disc that has commercially available stickers, rings or other accessories attached
- An 8 cm disc converted to a standard disc using an adaptor

**\*1 ISO9660 Format**

The most common international standard for the logical format of files and folders on a CD-ROM. There are several specification levels. In level 1, file names must be in the 8.3 format (no more than eight characters in the name, no more than three characters in the extension “.MP3” or “.JPG”) and in capital letters. Folder names can be no longer than eight characters. There can be no more than eight nested folder levels. Level 2 specifications allow file names and folder names up to 31 characters long. Each folder can have up to 8 trees.

For Joliet in the expansion format (file and folder names can have up to 64 characters) make sure of the contents of the writing software, etc.

**\*2 Multi Session**

Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

**\*3 CD-EXTRA: This format records audio (audio CD data) on the tracks in session 1 and data on the tracks in session 2.**

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## Notes on discs

- This system can play CD-R/CD-RW/DVD-R/DVD-RW (Ver. 1.1)/DVD+R/DVD+RW discs edited by the user (For DVD-R/DVD-RW (Ver. 1.1)/DVD+R/DVD+RW discs, this system can play only in video mode.). However, note that playback of some discs may not be possible depending on the recording device used for recording or the disc condition.
- Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the driver’s characteristics.
- CD-R and CD-RW discs that have not been correctly finalized (processing to allow play by a normal CD player) cannot be played.
- CD-R and CD-RW discs recorded in multi-session that have not ended by “closing the session” are not supported.
- The system may be unable to play MP3/JPEG format files that do not have the extender “.MP3”, “.JPG”, or “.JPEG”.
- Attempting to play non-MP3/JPEG format files that have the extender “.MP3”, “.JPG”, or “.JPEG” may result in noise or malfunction. Playback is possible up to 8 levels.
- An album that does not include an MP3 audio track or JPEG file is skipped.
- Progressive JPEG format files cannot be played.
- JPEG images with one vertical dot cannot be displayed.
- JPEG images with 4720 or more vertical or horizontal dots cannot be displayed.
- The maximum number of albums is 99 (The maximum number of tracks that can be recorded in an MP3 or JPEG album is 250.)
- With formats other than ISO9660 level 1/level 2, folder names or file names may not be displayed correctly.

- The following discs take a longer time to start playback.
  - a disc recorded with complicated tree structure
  - a disc recorded in Multi Session
  - a disc to which data can be added (non-finalized disc)
- Some CD-Rs, CD-RWs, DVD-Rs or DVD-RWs (in video mode) (DVD-RWs created in video mode have the same format as a DVD VIDEO) cannot be played on this system depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- A disc recorded in packet write format cannot be played.

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## **Note on playback operations of DVDs and VIDEO CDs**

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this system plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

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## **Music discs encoded with copyright protection technologies**

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

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## **Cautions when playing a disc that is recorded in Multi Session**

- This system can play Multi Session CDs when an MP3 audio track is contained in the first session. Any subsequent MP3 audio tracks recorded in later sessions can also be played back.
- This system can play Multi Session CDs when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.
- If audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

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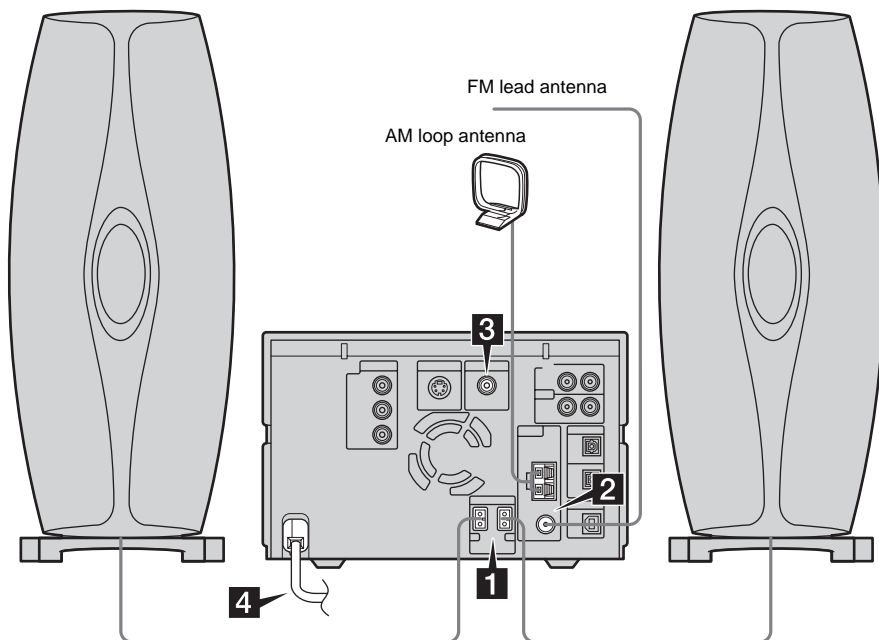
## **Copyrights**

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

## Getting Started

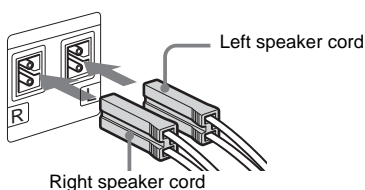
# Hooking up the system

Perform the following procedures **1** to **5** to hook up your system using the supplied cords and accessories.



### **1** Connect the speakers.

Connect the right and left speaker cords to the SPEAKER terminals as shown below.

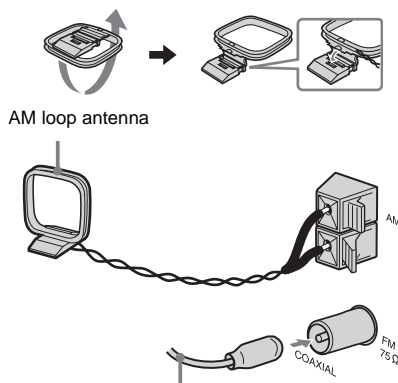


### **Note**

Keep the speaker cords away from the antennas to prevent noise.

### **2** Connect the FM and AM antennas.

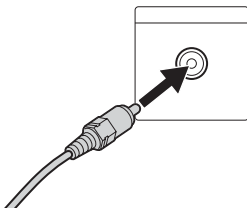
Set up the AM loop antenna, then connect it.



Extend the FM lead antenna horizontally



- 3** Connect the video input jack of your TV to the VIDEO OUT jack with the video cord.

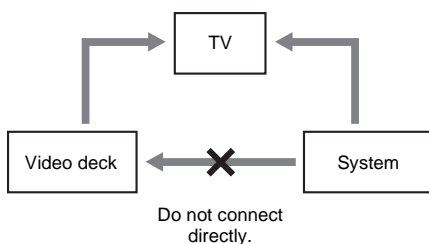


#### When using a TV

Turn on the TV and select the video input so that you can view the pictures from this system.

#### When connecting a video deck

Connect the TV and the video deck using video and audio cords (not supplied) as shown below.



If you connect a video deck between this system and the TV, you may experience video leakage when watching the video signal from this system. Do not connect a video deck between this system and the TV.

#### Note

Do not place the TV on this system.

#### Tip

For even higher quality video images:

- Use an optional component video cord to connect the COMPONENT VIDEO input jacks on your TV to the COMPONENT VIDEO OUT jacks of this system. If your TV is compatible with progressive format file signals, use this connection and set “COMPONENT OUT” to “PROGRESSIVE” in “Adjusting the TV screen” (page 27).
- You can use an optional S-video cord to connect the S VIDEO input jack on your TV to the S VIDEO OUT jack.

- 4** Connect the mains lead on the unit.

If the plug does not fit your wall socket, detach it from the plug (only for models equipped with an adapter).

To turn on the system, press I/⏻.

- 5** Set the color system to PAL or NTSC depending on the color system of your TV.

The color system is factory set to NTSC.

Each time you perform the procedure below, the color system changes as follows:  
NTSC ↔ PAL

Use buttons and sticks on the top of the unit for the operation.

- 1 Press I/⏻ to turn off the system.
  - 2 While pushing the SA-CD/DVD stick toward ◀◀, press ▲ and VOLUME +.
- The system turns on and the color system is changed.

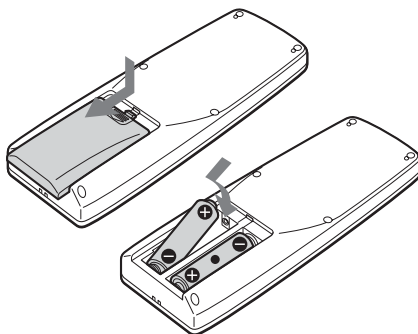
#### Note

When you play back a VIDEO CD recorded in a different color system from the one you set to the unit, the picture image may be distorted.

#### To connect optional components

See page 79.

#### Inserting two size AA (R6) batteries into the remote



#### Notes


- If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- See page 103 for the location of the remote sensor.

#### Tip

When the remote no longer operates the system, replace both batteries with new ones.

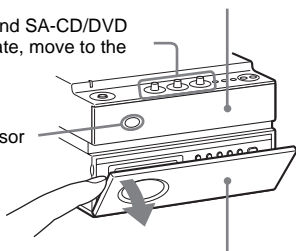
continued

## Operating the main unit, opening the lid

Disc tray cover (To open and close, press  on the top of the unit.)

TUNER, MD and SA-CD/DVD stick (To operate, move to the front, back, left and right.)

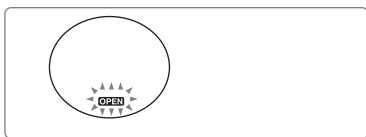
Remote sensor



Lid (To open and close, pull or push gently with your fingers.)

### About the front panel display









You can operate this unit with the lid closed when not using the buttons located under the lid. However, if “OPEN” flashes in the front panel display, be sure to open the lid and confirm the displayed message before proceeding.



#### Tip



Front panel display examples in this manual are based on operation with the lid open. Similar messages appear during operation with the lid closed.

## Setting the clock



- 1 Press I/⏻ to turn on the system.
- 2 Open the lid.
- 3 Press CLOCK/TIMER SET.
- 4 Press  or  repeatedly to set the day of the week.
- 5 Press ENTER/YES or .
- 6 Press  or  repeatedly to set the hour.
- 7 Press ENTER/YES or .
- 8 Press  or  repeatedly to set the minute.
- 9 Press ENTER/YES.

The clock starts working.

#### Tip

If you make a mistake during settings, press  or  repeatedly so that the value you want to change (day, hour, minute) blinks, then change the setting.

### To adjust the clock

- 1 Press I/⏻ to turn on the system.
- 2 Open the lid.
- 3 Press CLOCK/TIMER SET.
- 4 Press  or  repeatedly to select “CLOCK SET?”, then press ENTER/YES.
- 5 Do the same procedures as step 4 to 9 above.

#### Notes

- The clock settings are cancelled when you disconnect the mains lead or if a power failure occurs.
- If you perform the above procedure with the lid closed, “OPEN” flashes in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Selecting a language

You can change the on-screen display (OSD) language.

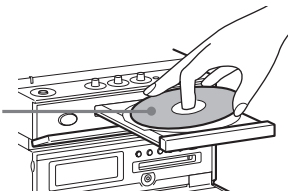
- 1** Turn on your TV and select the video input.
- 2** Press I/⏻ to turn on the system.
- 3** Press FUNCTION to switch the function to DVD.
- 4** Press DVD SETUP in stop mode.
- 5** Press ▲ or ▼ repeatedly to select “LANGUAGE SETUP”, then press ENTER/YES.
- 6** Press ▲ or ▼ repeatedly to select “OSD”, then press ENTER/YES.
- 7** Press ▲ or ▼ repeatedly to select a language from the displayed list, then press ENTER/YES.

# DVD/VIDEO CD/CD/Super Audio CD/ MP3/JPEG – Play

## Loading a disc

- 1** Press **▲** on the top of the unit.
- 2** Place a disc with the label side up on the disc tray.

When you play a 8 cm disc, place it on the inner circle of the tray.



- 3** Press **▲** again to close the disc tray.

### Notes

- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- Do not load an 8 cm disc with an adaptor. Doing so may cause the system to malfunction.
- When you eject a disc, handle the disc by its edge. Do not touch the surface.
- Do not forcibly press the disc tray closed with your hand, as this may cause a malfunction. To close the disc tray, always press **▲** on the top of the unit. Further, do not open or close the disc tray cover with your hand, as the disc tray cover opens and closes automatically with the disc tray.

## Playing a disc

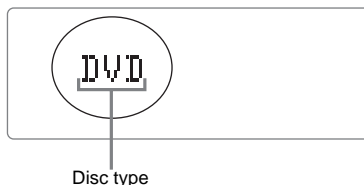
### — Normal Play/Shuffle Play



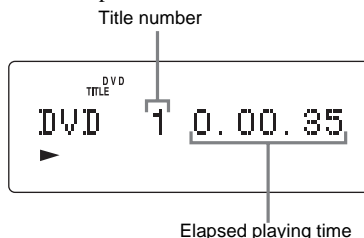
Before playing a DVD or VIDEO CD, turn on your TV and select the video input. Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with the disc.

### Example: When playing a DVD

With the lid closed

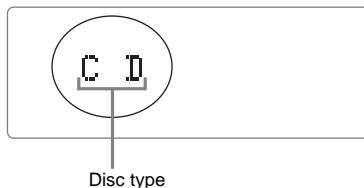


With the lid open

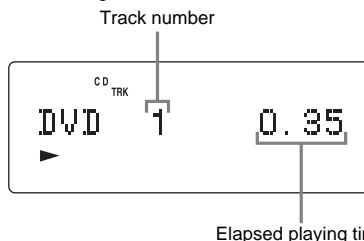


### Example: When playing a CD

With the lid closed



With the lid open



**1 Press FUNCTION repeatedly to switch the function to DVD.**

**2 Press PLAY MODE in stop mode repeatedly until the mode you want appears in the display.**

Select*	To play
No display (Normal Play)	The tracks on the disc in original order.
ALBM (Normal Play)	All MP3 audio tracks in the album on the disc in original order.  When playing a non-MP3 disc, Album Play performs the same operation as Normal Play (No display).
SHUF (Shuffle Play) (except for DVD)	All tracks on the disc in random order.
ALBM SHUF (Shuffle Play)	The MP3 audio tracks in the album on the disc in random order.  When playing a non-MP3 disc, Album Shuffle Play performs the same operation as Shuffle Play (SHUF).
PGM (Program Play) (except for DVD)	The tracks on the disc in the order you want them to be played (see “Creating your own program” on page 19).

\* Similar messages appear during operation with the lid closed.

**3 Press SA-CD/DVD ►.**

### Tips

You can change the play mode using the on-screen display as follows:

- Press DVD DISPLAY in stop mode.  
The Control Menu appears.
  - 1 Press ▲ or ▼ to select “PLAY MODE”, then press ENTER/YES.
  - 2 Press ▲ or ▼ to select desired play mode, then press ENTER/YES.
- If playback does not start quickly when switching from the TUNER function, perform the following procedure.
  - 1 Switch to the DVD function, then press I/⏻ to turn off the system.
  - 2 While pushing the DVD stick towards ■, press I/⏻ on the unit. (“DVD POWER ON” appears.)

## Other operations

To	Do this
Stop play	Press ■.
Pause	Press II. Press II again to resume play.
Select a track or chapter	Press I◀◀ or ▶▶I repeatedly during play or pause.
Select an album of MP3	Press ALBUM + or – repeatedly after step 2.
Find a point in a track (Search)*1 (except for MP3 audio tracks)	Keep moving DVD stick on the unit to I◀◀ or ▶▶I during playback and release it at the desired point.
Locate a point quickly in fast forward or fast reverse (Scan)*1*2 (except for MP3 audio tracks)	Press ◀◀ or ▶▶ during play. Each time you press the button, searching speed changes as follows: 1 (slow) ↔ 2 (faster than 1) For CD or Super Audio CD, searching speed does not change (1 (slow) play). To return to Normal Play, press SA-CD/DVD ►.
Watch frame by frame (Slow-motion Play)*2 (DVD and VIDEO CD only)	During pause, press ◀I or I▶. Each time you press the button, the playback speed changes as follows: Playback direction 2 ►▶*3 ↔ 1 ►▶*3 Opposite direction (DVD only) 2 ◀◀*3 ↔ 1 ◀◀*3 To return to Normal Play, press SA-CD/DVD ►.
Remove a disc	Press ▲ on the top of the unit.

\*1 During Search or Scan Play, no sound is output.

\*2 Depending on the DVD or VIDEO CD, some operations may be restricted. The playback speeds that can be selected differ depending on the disc. Slow-motion reverse play for DVD only.

\*3 2 ►▶/2 ◀◀ playback speed is slower than 1 ►▶/1 ◀◀.

continued

## Notes

- If DVD playback is paused for approximately one hour, the system automatically turns off.
- You cannot change the play mode during play.
- Some time may be needed to start playback of discs recorded in complex configurations such as many layers.
- This system can play Multi Session CDs when an MP3 audio track is located in the first session. Any subsequent MP3 audio tracks, recorded in the later sessions, can also be played back.
- Maximum number of albums on a disc: 99 (The maximum number of MP3 audio tracks that can be contained on an album is 250.)
- An album that does not include an MP3 audio track is skipped.
- If you put the extension “.MP3” to data not in MP3 format, the system cannot recognize the data properly and will generate a loud noise which could damage your speaker system.
- The system can play to a depth of 8 directories.
- When playing a VBR (Variable Bit Rate) MP3 disc, the displayed playing time may differ from the actual time.

## Tips

- When playing the data disc (CD-ROM/CD-R/CD-RW) contained MP3 audio tracks and JPEG image files, set to “MP3” in “DATA CD PRIORITY” (page 26).
- You can switch between and play back the various layers of Super Audio CDs. For details, see “Changing the sound (except for JPEG)” on page 23.

## Resuming playback from the point you stopped the disc

### — Resume Play

This system memorizes the point where you stopped the disc so you can resume from that point. Resume Play is not cancelled when you set Power Saving Mode.

**1** While playing a disc, press ■ to stop playback.  
“RESUME” appears in the display. If “RESUME” does not appear, Resume Play is not available.

**2** Press SA-CD/DVD ►.

The player starts playback from the point you stopped the disc in step 1.

## Notes

- You cannot perform Resume Play during Shuffle Play or Program Play.
- Depending on where you stopped the disc, the system may resume playback from a different point.
- Resume play is cancelled when:
  - you press ■ in stop mode.
  - you remove a disc.
  - you change the play mode.
  - you change the settings using the DVD SETUP button.

## Playing a track by entering the track number

Press the number button(s) to enter the track number of the track you want to play during Normal Play, then press ENTER/YES to play the track. (To enter the MP3 audio track number, press ALBUM + or – repeatedly to select the desired album before entering the number.)

### To enter a track number over 10

**1** Enter the corresponding digits.

To enter 0, press 10/0.

**2** Press ENTER/YES.

### Example:

To play track number 30, press 3 and 10/0, then press ENTER/YES.

To play MP3 track number 100, press 1, 10/0 and 10/0, then press ENTER/YES.

## Playing DVDs using the menu

### DVD

Some DVDs have menus to help you enjoy the DVDs. You can play DVDs using these menus on TV screen.

#### • Using the DVD top menu

A DVD is divided into long sections of a picture or a music feature called “titles”. When you play a DVD which contains several titles, you can select the title you want using the menu.

#### • Using the DVD menu

Some DVDs allow you to select the disc contents using a menu. When you play these DVDs, you can select items such as the language for the subtitles and the language for the sound using the DVD menu.

#### 1 Press DVD TOP MENU or DVD MENU.

The menu appears on the TV screen. The contents of the menu vary from disc to disc.

#### 2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ or the number buttons to select the title or item you want to play.

#### 3 Press ENTER/YES.

#### Note

If the DVD top menu or a DVD menu is displayed during DVD playback for approximately one hour, the system automatically turns off.

## Playing VIDEO CDs with PBC functions (Ver. 2.0)

### — PBC Play

#### VIDEO CD

You can use PBC\* menus on your TV screen to enjoy the disc’s interactive software. The menu format and structure may differ depending on each disc.

\* PBC: Playback Control

#### 1 Press SA-CD/DVD $\blacktriangleright$ to start playing a VIDEO CD with PBC functions (Ver. 2.0).

The PBC menu appears on the TV screen.

#### 2 Press $\uparrow/\downarrow$ or the number buttons to select the item number you want.

#### 3 Press ENTER/YES.

#### 4 Continue playback according to the instructions on the menus to enjoy interactive playback.

Refer to the operating instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

### To go back to a previous menu

Press RETURN  $\curvearrowright$ .

#### Notes

- Depending on the VIDEO CD, “Press ENTER/YES” in step 3 may appear as “Press SELECT” in the operating instructions supplied with the disc. In this case, press SA-CD/DVD  $\blacktriangleright$ .
- You cannot perform Repeat Play during PBC playback of VIDEO CDs.

#### Tip

You can cancel playback with PBC functions.

#### 1 In stop mode, press $\blacktriangleleft/\blacktriangleright$ or the number buttons to select a track.

#### 2 Press SA-CD/DVD $\blacktriangleright$ or ENTER/YES.

“Play without PBC” appears on the TV screen and playback starts from the selected track. Still images, such as the menu screens, will not be shown.

To return to PBC playback, press  $\blacksquare$  twice, then press SA-CD/DVD  $\blacktriangleright$ .

# Playing JPEG Image Files

## JPEG

You can play JPEG image files on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1/level 2 or Joliet format for the system to recognize the files. You can also play discs recorded in Multi Session. See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

**1 Load a data disc recorded in JPEG into the system.**

**2 Press SA-CD/DVD ►.**

The system starts to play the first JPEG image file in the first album on the disc.

### Notes

- The system can play the extension “.JPG” or “.JPEG”.
- Progressive JPEG format files cannot be played on this system.
- Some CD-Rs or CD-RWs cannot be played on this system depending on file format.
- Maximum album number: 99 (including root folder)
- The maximum file number that can be contained on a single album is 250.
- Playback is possible up to 8 levels.
- An album that does not include a JPEG format file is skipped.
- JPEG images with 4720 or more vertical or horizontal dots cannot be displayed.

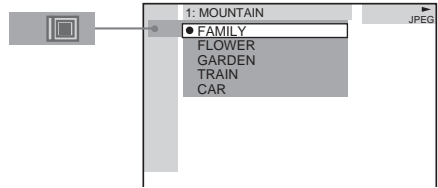
## Selecting an album and file

**1 Press DVD DISPLAY.**

The Control Menu and the JPEG data disc name appears.

**2 Press ▲ or ▼ to select “ALBUM”, then press ENTER/YES.**

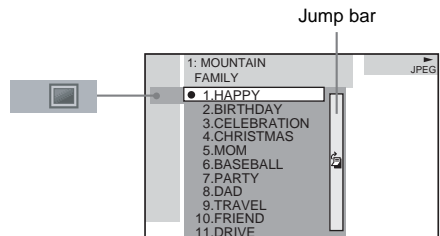
The list of albums contained in the disc appears.



**3 Select an album you want to play using ▲ or ▼ and press ENTER/YES.**

**4 Select “FILE” using ▲ or ▼ and press ENTER/YES.**

The list of files contained in the current album appears.



When the list of all files or albums cannot be displayed on the window, the jump bar appears. Press ► to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ▲ or ▼.

**5 Select a file using ▲ or ▼ and press ENTER/YES.**

The selected file starts playing.

## To return the previous display

Press ◀ or RETURN ⏮.

## To turn off the display

Press DVD DISPLAY.

### Note

Only the letters in the alphabet and numbers can be used for album or file names. Anything else is displayed as “ ”.

### Tip

When a JPEG data disc is inserted, you can select an album using ALBUM + or –.



## Enjoying the Slide show

- 1 Press **▶▶** while displaying a JPEG image.  
Slide show starts from the current image.
- 2 Press **SA-CD/DVD ▶** when you want to return to Normal Play.

## To change the interval time of Slide show

Each time you press **▶▶** during Slide show, the interval time changes as follows:

→ **FF1▶▶** → **FF2▶▶** → **FF3▶▶▶**

The **FF3▶▶▶** interval time is faster than **FF2▶▶**.

## Rotating the current image

Rotate the current image using **↻** or **↺**.

Each time you press **↻**, the image turns clockwise by 90°.

Each time you press **↺**, the image turns counterclockwise by 90°.

### Notes

- Slide show can play in only one direction.
- You cannot rotate the image during Slide show. Press **SA-CD/DVD ▶** to return to Normal Play before this operation.

## Playing repeatedly

### — Repeat Play



You can play repeatedly all the titles/tracks/files or a single title/chapter/track on a disc.

## Using the front panel display

Press **REPEAT** repeatedly during play until “**REP**” or “**REP1**” appears.

**REP:** For all the tracks on the disc, or all the tracks in the album\* up to five times.

**REP1:** For a VIDEO CD, CD, Super Audio CD or MP3, only the current track. For a DVD, only the current title\*\* or chapter\*\*.

\* When “**ALBM**” is selected for MP3 or JPEG.

\*\* You can check whether a title or chapter is being repeatedly played on the TV screen.

## To cancel Repeat Play

Press **REPEAT** repeatedly until both “**REP**” and “**REP1**” disappear.

### Notes

- Depending on the DVD, you cannot perform Repeat Play.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 15).
- You cannot select “**REP1**” during Program Play.
- When you select “**REP1**”, that title/chapter/track is repeated endlessly until “**REP1**” is cancelled.

### Tip

If you press **REPEAT** repeatedly while the lid is closed, “Repeat” (with “**REP**”) or “Track Repeat” (with “**REP 1**”) scrolls in the display. (When playing back DVDs, “Title Repeat” or “Chapter Repeat” scrolls in the display.) Open the lid to confirm the settings you have made.


---

## Using the on-screen display

### 1 Press DVD DISPLAY during play.

The Control Menu appears.

### 2 Press **↑** or **↓** repeatedly to select “REPEAT”, then press ENTER/YES.

If you do not select “OFF”, the “ ” indicator lights up in green.

### 3 Press **↑** or **↓** repeatedly to select the Repeat Play setting.

The default settings are underlined.

#### ■ When playing a DVD

- OFF: does not play repeatedly.
- ALL: repeats all the titles.
- TITLE: repeats the current title on a disc.
- CHAPTER: repeats the current chapter.

#### ■ When playing a VIDEO CD/CD/Super Audio CD/MP3 when Program Play is set to OFF

- OFF: does not play repeatedly.
- ALL: repeats all the tracks on a disc, or all the tracks in the current album (MP3 only).
- TRACK: repeats the current track.

#### ■ When playing a JPEG

- OFF: does not play repeatedly.
- ALL: repeats all the files on the disc, or repeats the current album only during Slide Show.

#### ■ When Program Play is set to ON

- OFF: does not play repeatedly.
- ALL: repeats Program Play.

### 4 Press ENTER/YES.

Repeat Play starts.

## To cancel Repeat Play

Select “OFF” in step 3, or press CLEAR.


## To turn off the Control Menu

Press DVD DISPLAY.

## Notes

- When you remove the disc, Repeat Play is cancelled.
- Depending on the DVD, you cannot perform Repeat Play.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 15).
- If you select “ALL”, the program repeats up to five times.
- You cannot select “REP1” during Program Play.

## Tips

- You can set Repeat Play when the playback is stopped. Press REPEAT repeatedly to select the setting, then press SA-CD/DVD  to start Repeat Play.
- You can quickly display the “REPEAT” status. Press REPEAT.

# Creating your own program

## — Program Play



You can make a program of up to 25 steps.  
You can synchro record the programmed tracks onto an MD (page 40).

## Using the front panel display

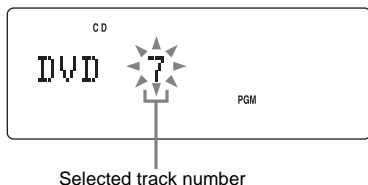
Open the lid before following the operations.

**1** Press **FUNCTION** to switch the function to DVD.

**2** Press **PLAY MODE** in stop mode repeatedly until “PGM” appears.

**3** Press **◀◀** or **▶▶** repeatedly until the desired title or track number appears.

When programming an MP3, press **ALBUM** + or – to select album, then press **◀◀** or **▶▶** repeatedly until the desired track number appears.



**4** Press **ENTER/YES**.

The track is programmed.

The program step number appears, followed by the last programmed track number.

**5** To program additional tracks, repeat steps 3 and 4.

**6** Press **SA-CD/DVD ▶**.

Program Play starts.

## Other operations

To	Do this
Cancel Program Play	Press <b>PLAY MODE</b> in stop mode repeatedly until “SHUF”, “PGM” and “ALBM” disappear.

To	Do this
Add a track to the end of program	Perform steps 1 to 4 in stop mode.
Clear a track from the end of program	Press <b>CLEAR</b> after step 4.

## Note

When you switch the play mode to “PGM” while “REP1” is selected, “REP1” is automatically cancelled.

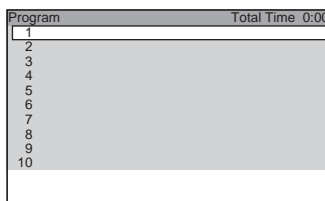
## Tips

- The program you made remains after Program Play finishes. To play the same program again, press **SA-CD/DVD ▶**. However, the program is cancelled when you open the disc tray.
- If you operate this unit with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Using the on-screen display

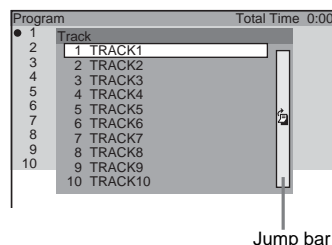
**1** Press **PLAY MODE** in stop mode repeatedly until “PGM” appears in the display.

The Program Display appears on the screen.



**2** Press **➡**.

“Program 1” is selected.



When the list of all tracks cannot be displayed on the window, the jump bar appears. Press **➡** to select the jump bar icon, and then scroll the jump bar to display the rest of the list using **▲** or **▼**. Press **◀** or **RETURN ↵** to return to the track list.

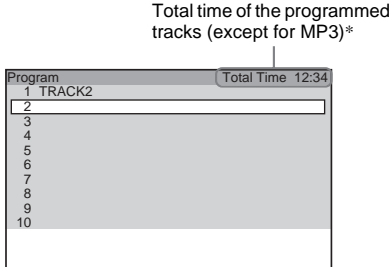
continued

**3 Select the album, or track you want to program.**

**■ When programming a VIDEO CD/CD/ Super Audio CD**

For example, select track “2”.

Press **▲/▼** or the number buttons to select “2”, then press ENTER/YES.



\* “- -: -” appears when an MP3 audio track is selected.

**■ When programming an MP3**

For example, select track “3” of album “2”.

Press **▲** or **▼** to select “2”, then press **➡**.

Next, press **▲/▼** or the number buttons to select “3”, then press ENTER/YES.

Press **⬅** or RETURN **↶** to return to the album list before pressing ENTER/YES.

**4 To program other albums or tracks, repeat step 3.**

**5 Press SA-CD/DVD **▶**.**

Program Play starts.

When the program ends, you can restart the same program again by pressing SA-CD/ DVD **▶**.

**Other operations**

To	Do this
Return to Normal Play	Press PLAY MODE in stop mode repeatedly until “CONTINUE” appears.
Clear a track from the end of program	Press CLEAR after step 3.

**Notes**

- Program Play function is not available for DVD and JPEG.
- When you switch the play mode to “PGM” while “REP1” is selected, “REP1” is automatically cancelled.
- Program Play is cancelled when the disc tray is opened.

**Tip**

You can also perform Repeat Play of the programmed tracks. Press REPEAT during Program Play, or set “REPEAT” to “ALL” at the Control Menu screen (page 18).

## Searching for a title/ chapter/track/index/ album/file



You can search a title (DVD), chapter (DVD), track (CD, VIDEO CD, Super Audio CD, MP3), index (VIDEO CD, Super Audio CD), album (MP3, JPEG) and file (JPEG). As titles, tracks, albums and files are assigned unique numbers on the disc, you can select the desired one from the Control Menu. Also chapters and indexes are assigned unique numbers on the disc, so you can select the desired one by entering its number. Or, you can search for a particular point using the time code (Time Search).

### Searching for a title/track/ album/file

#### 1 Press DVD DISPLAY.

The Control Menu appears.

#### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select the search method.

##### ■ When playing a DVD

“TITLE”

##### ■ When playing a VIDEO CD without PBC function

“TRACK”

##### ■ When playing a CD/Super Audio CD

“TRACK”

##### ■ When playing an MP3

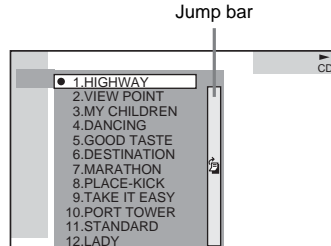
“ALBUM” or “TRACK”

##### ■ When playing a JPEG

“ALBUM” or “FILE”

#### 3 Press ENTER/YES.

The list of contents in the disc appears.



When the list of all tracks or albums cannot be displayed on the window, the jump bar appears. Press  $\blacktriangleright$  to select the jump bar icon, and then scroll the jump bar to display the rest of the list using  $\uparrow$  or  $\downarrow$ . Press  $\blacktriangleleft$  or RETURN  $\hookrightarrow$  to return to the track or the album list.

#### 4 Press $\uparrow$ or $\downarrow$ to select the desired title, track, album or file, then press ENTER/YES.

The system starts playback from the selected track, etc.

### Searching for a chapter/index

#### 1 Press DVD DISPLAY.

The Control Menu appears.

#### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select the search method.

##### ■ When playing a DVD

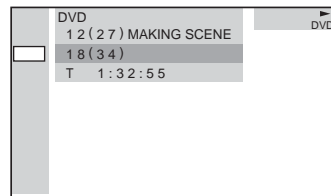
“CHAPTER”

##### ■ When playing a VIDEO CD

“INDEX”

“\*\* (\*\*)” is selected (\*\* refers to a number).

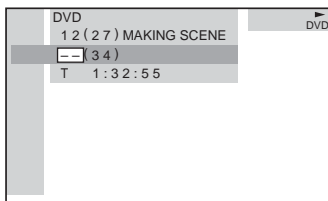
The number in parentheses indicates the total number of chapters or indexes.



continued

### 3 Press ENTER/YES.

“\*\* (\*\*)” changes to “-- (\*\*)”.



### 4 Press $\uparrow$ or $\downarrow$ repeatedly, or press the number buttons to select the chapter or index number you want to search.

If you make a mistake, press CLEAR to cancel the number, then select another number.

### 5 Press ENTER/YES.

The playback starts from the selected number.

## To turn off the Control Menu

Press DVD DISPLAY.

## To cancel searching

Press  $\leftarrow$  or RETURN  $\rightarrow$ .

## To search for a particular point using the time code

### — Time Search

For example: Searching the playback time of a DVD title.

#### 1 In step 2, select “TIME”.

“T \*\*:\*\*:~” (playing time of the current title) is selected.

#### 2 Press ENTER/YES.

“T --:--:--” appears above “T \*\*:\*\*:~”.

#### 3 Input the time code using the number buttons, then press ENTER/YES.

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, enter “2:10:20”.

## Notes

- The title, chapter or track number displayed on the TV screen is recorded data on the disc.
- You cannot search a scene of a VIDEO CD.

- If you play a DVD, input the playing time of the current title using the time code. If you play a VIDEO CD, CD, Super Audio CD or MP3, input the playing time of the current track using the time code.

## Tip

You can change the display to show playing time or remaining time. For details, see “Viewing information about the disc in the on-screen display” (page 73).

## DVD – Various functions

### Changing the sound/ subtitle/language

DVD

VIDEO  
CD

SA-CD  
CD

MP3

JPEG

#### Changing the sound (except for JPEG)

You can select the audio language and the audio recording format while playing a DVD.

In addition, you can output the sound for either the right or left channel from both the right and left speakers while playing a CD, VIDEO CD or an MP3 file. You can also listen to only the accompaniment of a karaoke VIDEO CD, etc. For Super Audio CDs recorded with both the Super Audio signal and a normal CD signal, you can select the desired signal for playback. (However, this unit does not support multi-channel playback of Super Audio CDs.)

#### 1 Press DVD DISPLAY during play.

The Control Menu appears.

#### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select “AUDIO”, then press ENTER/YES.

The options for “AUDIO” appear.

#### 3 Press $\uparrow$ or $\downarrow$ repeatedly to select the audio signal you want.

##### ■ When playing a DVD

The choice of the language and audio format varies.

When 4 digits are displayed, they represent the language code (see “Language code list” on page 97). When the same language is displayed twice or more times, the DVD is recorded in multiple audio formats.

##### ■ When playing a VIDEO CD/CD/MP3

The default settings are underlined.

- STEREO: Normal stereo playback
- 1/L: Left channel sound (monaural)
- 2/R: Right channel sound (monaural)

##### ■ When playing a Super Audio CD

Make this setting in stop mode. The selectable items differ according to the disc. The default settings are underlined.

- Super Audio CD: Super Audio data playback
- CD: Normal CD data playback\*

\* This is only available with hybrid discs.

#### 4 Press ENTER/YES.

#### To turn off the Control Menu

Press DVD DISPLAY.

#### To preset the desired audio track

You can preset the system to the desired audio track with the operations described under “Changing the screen display language, DVD menu language and audio track auto selection mode” (page 25).

##### Notes

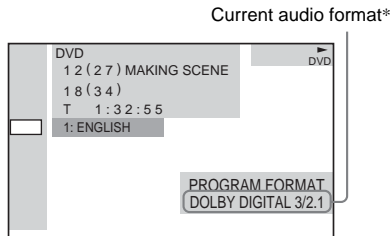
- For discs not recorded in multiple audio format, you cannot change the sound.
- Depending on the DVD, you may not be able to change the sound even if multiple audio format are recorded on the DVD.
- For VIDEO CDs, CDs and MP3 audio tracks, the setting returns to “STEREO” when you turn off the system or open the disc tray.
- During DVD playback, the sound may change automatically.
- Displayed setting items differ depending on the original recording format of the Super Audio CD.
- It may take some time for this unit to read the disc information after you switch the audio format of a Super Audio CD.

##### Tip

You can select the audio setting by pressing AUDIO. Each time you press the button, the setting changes.

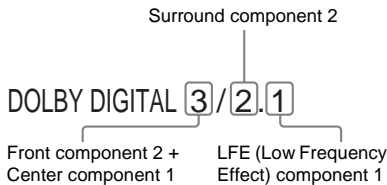
# Displaying the audio information of the disc (DVD only)

When you select “AUDIO”, the channels being played are displayed on the screen. For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of recorded channels may differ.



\* “PCM”, “DTS”, or “DOLBY DIGITAL” is displayed. For “DOLBY DIGITAL”, the channels in the playing track are displayed numerically as follows:

For Dolby Digital 5.1 ch:



# The display examples are as follows:

- PCM (stereo)

PROGRAM FORMAT  
PCM 48kHz 24bit

- Dolby Surround

PROGRAM FORMAT  
DOLBY DIGITAL 2/0  
DOLBY SURROUND

- Dolby Digital 5.1ch

PROGRAM FORMAT  
DOLBY DIGITAL 3/2.1

- DTS

PROGRAM FORMAT  
DTS 3/2.1



## Displaying the subtitles (DVD only)

With DVDs on which multilingual subtitles are recorded, you can change the subtitle language while playing a DVD, or turn the subtitles on or off whenever you want.

For example, you can select the language you want to master and turn the subtitles on for better understanding.

### 1 Press DVD DISPLAY during play.

The Control Menu appears.

### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select “SUBTITLE”, then press ENTER/YES.

The options for “SUBTITLE” appear.

### 3 Press $\uparrow$ or $\downarrow$ repeatedly to select the language you want, then press ENTER/YES.

The subtitles are displayed in the selected language.

When 4 digits are displayed, they represent the language code (see “Language code list” on page 97).

## To cancel the subtitle setting

Select “OFF” in step 3.

## To turn off the Control Menu

Press DVD DISPLAY.

## To preset the desired subtitle

You can preset the system to the desired subtitle with the operations described under “Changing the screen display language, DVD menu language and audio track auto selection mode” (page 25).

### Note

Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD.

### Tip

You can select the subtitle language by pressing SUBTITLE. Each time you press the button, the language changes.

## Changing the screen display language, DVD menu language and audio track auto selection mode

### — LANGUAGE SETUP/CUSTOM SETUP

### 1 Press DVD SETUP in stop mode.

The Setup Display appears.

### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select “LANGUAGE SETUP” or “CUSTOM SETUP”, then press ENTER/YES.

Select	Setup item
LANGUAGE SETUP	OSD
	DVD MENU
	AUDIO
	SUBTITLE
CUSTOM SETUP	PARENTAL CONTROL (page 29)
	VCD COLOR SYSTEM (page 28)
	TRACK SELECTION
	AUDIO DRC
	DATA CD PRIORITY
	JPEG DATE

### 3 Press $\uparrow$ or $\downarrow$ repeatedly to select an item, then press ENTER/YES.

### 4 Press $\uparrow$ or $\downarrow$ repeatedly to select a setting, then press ENTER/YES.

#### ■ OSD (on-screen display)

Switches the display language on the screen. Select the language from the displayed list.

#### ■ DVD MENU (DVD only)

Switches the language of the DVD menu. Select the language from the displayed list.

#### ■ AUDIO (DVD only)

Switches the language of the sound track. Select the language from the displayed list.

#### ■ SUBTITLE (DVD only)

Switches the language of the subtitle. Select the language from the displayed list.

**Notes**

- When the selected language is not recorded on the DVD, one of the recorded languages is automatically selected (except for “OSD”).
- If you select “OTHERS→” in “DVD MENU”, “AUDIO” or “SUBTITLE”, select and enter the language code from the language code list using the number buttons (page 97). The selected language code (4 digits) is displayed the next time you select “OTHERS→”.

**■ TRACK SELECTION (DVD only)**

Gives the priority to the sound track which contains the highest number of channels when you play a DVD on which multiple audio formats (PCM, MPEG audio, DTS, or Dolby Digital format) are recorded.  
The default setting is underlined.

<u>OFF</u>	No priority given.
AUTO	Priority given.

**Notes**

- When you set to “AUTO”, the language setting may change. The “TRACK SELECTION” setting has higher priority than the “AUDIO” setting in “LANGUAGE SETUP”.
- If PCM, MPEG audio, DTS, and Dolby Digital sound tracks have the same number of channels, the system selects PCM, DTS and Dolby Digital, MPEG audio sound tracks in this order.
- Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS, or Dolby Digital or MPEG audio format by selecting “AUTO”.

**■ AUDIO DRC (Dynamic Range Compression)**

Narrows the DYNAMIC range of the soundtrack. Useful for watching movies at low volume late at night.  
The default setting is underlined.

OFF	No compression of DYNAMIC range.
<u>STANDARD</u>	Reproduces the sound track with the kind of DYNAMIC range that the recording engineer intended.
MAX	Narrows the DYNAMIC range fully.

**Note**

AUDIO DRC only works in Dolby Digital.

**■ DATA CD PRIORITY (MP3, JPEG only)**

Set priority data you want to play, when you play the data disc (CD-ROM/CD-R/CD-RW) contained MP3 audio tracks and JPEG image files.  
The default setting is underlined.

<u>MP3</u>	If an MP3 file exists on the disc, the system recognises the disc as an “MP3 Disc”. If only JPEG files exist on the disc, the system recognises the disc as a “JPEG Disc”.
JPEG	If a JPEG file exists on the disc, the system recognises the disc as a “JPEG Disc”. If only MP3 files exist on the disc, the system recognises the disc as an “MP3 Disc”.

**Notes**

- When you play a Multi Session data CD, the last session and any sessions linked from the last session are played.
- When you change the setting, re-load the disc.

**■ JPEG DATE**

Change the date information order of a JPEG image in the Control Menu.  
The default setting is underlined.

<u>MM/DD/YYYY</u>
YYYY/MM/DD
DD/MM/YYYY
YYYY/DD/MM

YYYY: Year  
MM: Month  
DD: Day

**Tip**

You can reset all the DVD settings except for Parental Control by performing the operations described under “To return the DVD setup to the default settings\*”, perform reset as follows:” (page 87).

\* Except for Parental Control settings

## Adjusting the angle/image

DVD

VIDEO  
CD

SA-CD  
CD

MP3

JPEG

### Changing the angles (DVD only)

When playing a DVD on which various angles (multi-angles) for a scene are recorded, the “ANGLE” indicator lights up in green on the screen. This means that you can change the viewing angle.

For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train or from the right window without having the train’s movement interrupted.

#### 1 Press DVD DISPLAY during play.

The Control Menu appears.

#### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select “ANGLE”.

The angle number appears. The number in parentheses indicates the total number of angles. The “ANGLE” indicator lights up in green when angles are recorded on the disc.

#### 3 Press $\rightarrow$ or ENTER/YES.

The angle number changes to “–”.

#### 4 Select the angle you want using the number buttons or $\uparrow/\downarrow$ , then press ENTER/YES.

The angle is changed to the selected angle.

### To turn off the Control Menu

Press DVD DISPLAY.

#### Note

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

#### Tip

You can select the angle by pressing ANGLE. Each time you press the button, the angle changes.

## Adjusting the TV screen

### — SCREEN SETUP/CUSTOM SETUP

#### 1 Press DVD SETUP in stop mode.

The Setup Display appears.

#### 2 Press $\uparrow$ or $\downarrow$ repeatedly to select the setup item the displayed list, then press ENTER/YES.

Select	Setup item
SCREEN SETUP	TV TYPE SCREEN SAVER BACKGROUND COMPONENT OUT
CUSTOM SETUP	VCD COLOR SYSTEM

#### 3 Press $\uparrow$ or $\downarrow$ repeatedly to select an item, then press ENTER/YES.

#### 4 Press $\uparrow$ or $\downarrow$ repeatedly to select a setting, then press ENTER/YES.

#### ■ TV TYPE (DVD only)

Select the aspect ratio of the connected TV. The default setting is underlined.

<u>16:9</u>	Select this when you connect a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX	Select this when you connect a 4:3 screen TV. This setting displays a wide picture with bands displayed on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when you connect a 4:3 screen TV. This setting displays the wide picture on the entire screen and cuts off the portions that do not fit.

- 16:9



- 4:3 LETTER BOX



• 4:3 PAN SCAN



**Note**

Depending on the DVD, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” or vice versa.

■ **SCREEN SAVER**

Turn on and off the screen saver. If you turn on the screen saver, the screen saver image appears when you leave the player in pause or stop mode for 15 minutes or when you play a CD, Super Audio CD, disc with MP3 audio tracks or JPEG image files (except for during Slide show) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press SA-CD/DVD ► to turn off the screen saver.

The default setting is underlined.

<u>ON</u>	Turns on the screen saver.
OFF	Turns off the screen saver.

■ **BACKGROUND**

Select the background color or picture on the TV screen when the playback is stopped or while playing a CD.

The default setting is underlined.

<u>JACKET PICTURE</u>	The jacket picture (still picture) appears in the background, but only when the jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the “GRAPHICS” picture appears.
GRAPHICS	The preset picture stored in the system appears in the background.
BLUE	The background color is blue.
BLACK	The background color is black.

■ **COMPONENT OUT**

This will change the type of signal output from the COMPONENT VIDEO OUT jacks on the system.

The default setting is underlined.

<u>INTERLACE</u>	Select this when you are connected to a standard (interlace format) TV.
------------------	---

---

**PROGRESSIVE** Select this when you have a TV that can accept progressive signals.

---

**To force the system to switch to interlace when PROGRESSIVE is selected (on the unit only)**

Make sure the function is set to DVD, then simultaneously hold down the following three buttons on the top of the unit: DISPLAY, VOLUME + and ▲.

**Notes**

- “PROGRESSIVE” does not work for PAL signals. Even if you set “COMPONENT OUT” to “PROGRESSIVE”, the output signal is automatically switched to interlace format for PAL signals.
- When “COMPONENT OUT” is set to “PROGRESSIVE”, no video signal is output from the VIDEO OUT or S VIDEO OUT jacks.

■ **VCD COLOR SYSTEM**

Select the color system when you play a VIDEO CD.

The default setting is underlined.

<u>AUTO</u>	Outputs the video signal in the system of the disc, either PAL or NTSC. If your TV uses a DUAL system, select AUTO.
PAL	Changes the video signal of an NTSC disc and outputs it in the PAL system.
NTSC	Changes the video signal of a PAL disc and outputs it in the NTSC system.

**Note**

You cannot change the color system of the disc itself.

**Tip**

You can reset all the DVD settings except for Parental Control by performing the operations described under “To return the DVD setup to the default settings”, perform reset as follows:” (page 87).

\* Except for Parental Control settings

## Restricting disc playback

### — CUSTOM PARENTAL CONTROL/ PARENTAL CONTROL



### Preventing playback of specific discs

#### — CUSTOM PARENTAL CONTROL

You can set the playback restrictions so that the system will not play inappropriate discs. You can set the same Custom Parental Control password for up to 25 discs. When you set the twenty-sixth disc, the playback restriction for the first disc is cancelled.

#### **1** Insert the disc you want to lock.

If the disc is playing, press **■** to stop play.

#### **2** Press DVD DISPLAY in stop mode.

The Control Menu appears.

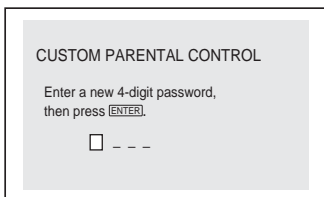
#### **3** Press **↑** or **↓** repeatedly to select “CUSTOM PARENTAL CONTROL”, then press ENTER/YES.

The “CUSTOM PARENTAL CONTROL” is selected.

#### **4** Press **↑** or **↓** repeatedly to select “ON→”, then press ENTER/YES.

##### **■ If you have not entered a password**

The display for registering a new password appears.

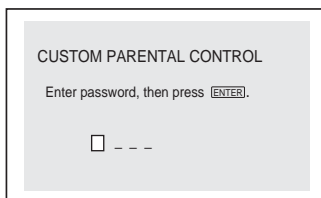


Enter a 4-digit password using the number buttons, then press ENTER/YES.

The display for confirming the password appears.

##### **■ When you have already registered a password**

The display for entering the password appears.



#### **5** Enter or re-enter your 4-digit password using the number buttons, then press ENTER/YES.

“Custom parental control is set.” appears and the screen returns to the Control Menu.

##### **If you make a mistake entering your password**

Press **◀** before you press ENTER/YES and input the correct number.

#### **If you make a mistake**

Press **◀** or RETURN **↵**, then start from step 3 again.

#### **To turn off the Control Menu**

Press DVD DISPLAY.

#### **To turn off the Custom Parental Control function**

**1** In step 4, select “OFF→”, then press ENTER/YES.

**2** Enter your 4-digit password using the number buttons, then press ENTER/YES.

#### **To change the password**

**1** In step 4, select “PASSWORD→”, then press ENTER/YES.

The display for entering the password appears.

**2** Enter your 4-digit password using the number buttons, then press ENTER/YES.

**3** Enter a new 4-digit password using the number buttons, then press ENTER/YES.

**4** To confirm your password, re-enter it using the number buttons, then press ENTER/YES.

## Playing the disc for which Custom Parental Control is set

**1** Insert the disc for which Custom Parental Control is set.  
The “CUSTOM PARENTAL CONTROL” display appears.

**2** Enter your 4-digit password using the number buttons, then press ENTER/YES.

The system is ready for playback.

### Notes

- When Custom Parental Control is set for a Super Audio CD, the display for entering the password appears each time the layer is switched.
- When Custom Parental Control is set for a hybrid Super Audio CD, the setting is valid only for the current layer.

### Tip

If you forgot your password, enter the 6 digits “199703” using the number buttons when the “CUSTOM PARENTAL CONTROL” display asks you for your password, then press ENTER/YES. The display will ask you to enter a new 4-digit password.

## Limiting playback by children (DVD only)

### — PARENTAL CONTROL

You can limit the playback of some DVDs according to a predetermined level such as the age of the users. The same password is used for both Custom Parental Control and Parental Control.

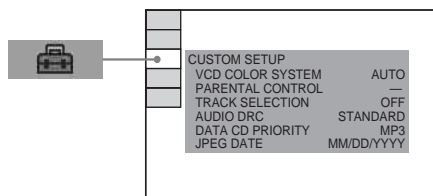
When a limited scene is played back, that scene is cut or replaced with a preset other scene.

**1** Press DVD SETUP in stop mode.

The Setup Display appears.

**2** Press  $\uparrow$  or  $\downarrow$  repeatedly to select “CUSTOM SETUP”, then press ENTER/YES.

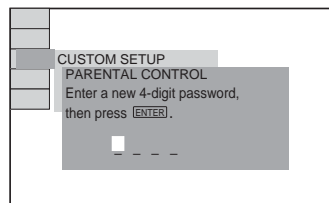
The “CUSTOM SETUP” display appears.



**3** Press  $\uparrow$  or  $\downarrow$  repeatedly to select “PARENTAL CONTROL→”, then press ENTER/YES.

### ■ If you have not entered a password

The display for registering a new password appears.

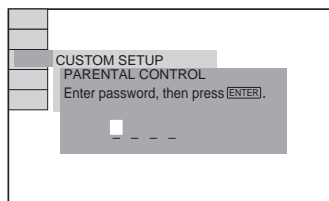


Enter a 4-digit password using the number buttons, then press ENTER/YES.

The display for confirming the password appears.

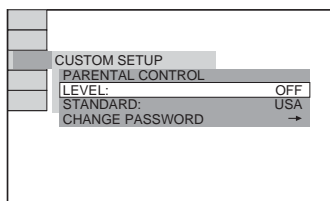
### ■ When you have already registered a password

The display for entering the password appears.



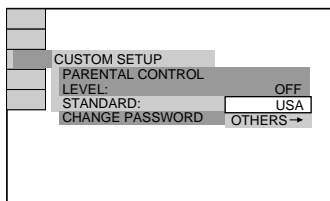
- 4** Enter or re-enter your 4-digit password using the number buttons, then press ENTER/YES.

The display for setting the playback limitation level and changing the password appears.



- 5** Press  $\uparrow$  or  $\downarrow$  repeatedly to select “STANDARD”, then press ENTER/YES.

The options for “STANDARD” appear.



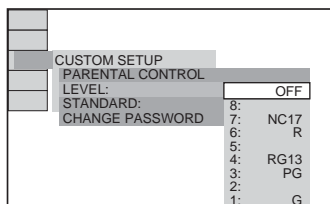
- 6** Press  $\uparrow$  or  $\downarrow$  repeatedly to select a geographic area as the playback limitation level, then press ENTER/YES.

The area is selected.

When you select “OTHERS $\rightarrow$ ”, select and enter the standard code in the table on page 32 using the number buttons.

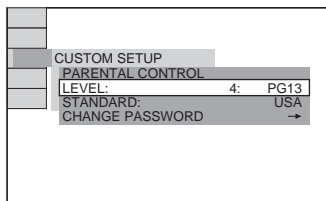
- 7** Press  $\uparrow$  or  $\downarrow$  repeatedly to select “LEVEL”, then press ENTER/YES.

The options for “LEVEL” appear.



- 8** Press  $\uparrow$  or  $\downarrow$  repeatedly to select the level you want, then press ENTER/YES.

The Parental Control setting is completed.



The lower the value, the more strict the limitation.

## If you make a mistake

Press  $\leftarrow$  or RETURN  $\rightarrow$  to go back to the previous screen.

## To turn off the Control Menu

Press DVD SETUP.

## To turn off the Parental Control function and play the DVD after entering your password

Set “LEVEL” to “OFF” in step 8.

## To change the password

- 1 In step 5, select “CHANGE PASSWORD $\rightarrow$ ”, then press ENTER/YES. The display for entering the password appears.

- 2 Follow step 3 to enter a new password.

## Playing the disc for which Parental Control is set

### 1 Insert the disc and press SA-CD/DVD ►.

The “PARENTAL CONTROL” display appears.

### 2 Enter your 4-digit password using the number buttons, then press ENTER/YES.

Playback starts.

#### Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this system.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is cancelled, the level returns to the original level.

#### Tip

If you forgot your password, remove the disc and repeat steps 1 to 3 of “Limiting playback by children (DVD only)” (page 30). When you are asked to enter your password, enter “199703” using the number buttons, then press ENTER/YES. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the system and press SA-CD/DVD ►. When the “PARENTAL CONTROL” display appears, enter your new password.

## Area code

Standard	Code number
Argentina	2044
Australia	2047
Austria	2046
Belgium	2057
Brazil	2070
Canada	2079
Chile	2090
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363
Mexico	2362
Netherlands	2376
New Zealand	2390
Norway	2379
Pakistan	2427
Philippines	2424
Portugal	2436
Russia	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184



## Speaker settings

### — SPEAKER SETUP

You can use the LFE channel recorded on discs to enjoy audio with powerful bass sounds.

### Setting the speakers

- 1** Press DVD SETUP in stop mode.  
The Setup Display appears.
- 2** Press  $\uparrow$  or  $\downarrow$  repeatedly to select “SPEAKER SETUP”, then press ENTER/YES.
- 3** Press  $\uparrow$  or  $\downarrow$  repeatedly to select “LFE”, then press ENTER/YES.
- 4** Press  $\uparrow$  or  $\downarrow$  repeatedly to select or set a setting, then press ENTER/YES.

### LFE (Low Frequency Effect)

You can use the LFE channel recorded on discs to enjoy bass sounds.

The default settings are underlined.

<u>ON</u>	LFE channel output.
OFF	No LFE channel output.

#### Note

If the sound seems drastically distorted or erratic, select “OFF”.

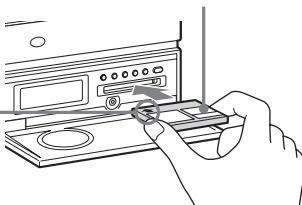
## MD – Play

### Loading an MD

#### Insert an MD.

With the label side up, and the shutter on the righthand side.

With the arrow pointing toward the deck.

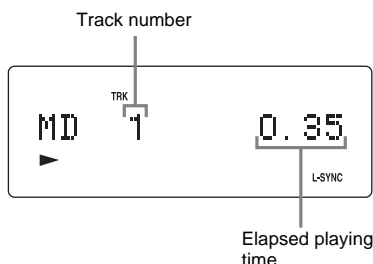


## Playing an MD

### — Normal Play/Shuffle Play/Repeat Play

This system lets you play the MD in different play modes.

With the lid open



**1** Press **FUNCTION** repeatedly to switch the function to MD.

**2** Press **PLAY MODE** in stop mode repeatedly until the mode you want appears.

Select	To play
No display (Normal Play)	The tracks on the MD in original order.
SHUF (Shuffle Play)	All tracks on the MD in random order.
PGM (Program Play)	The tracks on the MD in the order you want them to be played (see "Programming MD tracks" on page 35).

\* Similar messages appear during operation with the lid closed.

**3** Press **MD ►**.

#### Note

You cannot change the play mode during playback.

### Other operations

To	Do this
Stop play	Press <b>■</b> .
Pause	Press <b>II</b> . Press again to resume play.
Select a track	Press <b>◀◀</b> or <b>▶▶</b> repeatedly until you find the desired track.

To	Do this
Find a point in a track	Keep pressing ◀◀ or ▶▶ (or keep moving MD stick on the unit to ◀◀◀ or ▶▶▶) during playback and release it at the desired point.
Switch to MD function from another source*	Press MD ▶ (Automatic Source selection).
Remove the MD	Press ▲ on the front of the unit.

\* If you press MD ▶ while an MD is inserted, this unit switches to the MD function and playback starts even when you are listening to another source. While the Net MD function is on, you cannot switch the function.

## To play a track by entering the track number

You can also select the track you want using the remote during Normal Play.

### Press the number button (s).

#### To enter a track number over 10

- 1 Press >10.
- 2 Enter the corresponding digits for the same number of “–” flashing in the display.  
To enter 0, press 10/0.

#### Example:

To enter track number 30, press >10, then press 3 and 10/0.

## Playing repeatedly

### — Repeat play

Press REPEAT repeatedly until “REP” or “REP1” appears.

REP: For all the tracks on the MD up to five times.

REP1: For a single track only.

### To cancel Repeat Play

Press REPEAT repeatedly until both “REP” and “REP1” disappear.

#### Tip

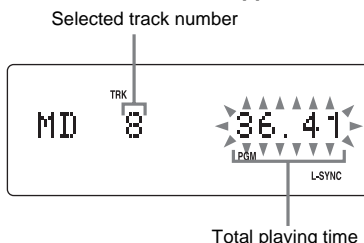
If you press REPEAT repeatedly while the lid is closed, “Repeat” (with “REP”) or “Track Repeat” (with “REP 1”) scrolls in the display.

## Programming MD tracks

### — Program Play

You can make a program of up to 25 steps. Open the lid before performing the following operations.

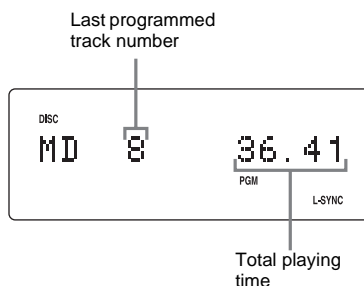
- 1 Press FUNCTION repeatedly to switch the function to MD.
- 2 Press PLAY MODE in stop mode repeatedly until “PGM” appears.
- 3 Press ◀◀ or ▶▶ repeatedly until the desired track number appears.



- 4 Press ENTER/YES.

The track is programmed.

The step number appears, followed by the track number in the programmed sequence and the total playing time of the program.



- 5 To program additional tracks, repeat steps 3 and 4.
- 6 Press MD ▶.  
Program Play starts.

## Other operations

To	Do this
Cancel Program Play	Press PLAY MODE in stop mode repeatedly until both “PGM” and “SHUF” disappear.
Check the program order	Press ◀◀ or ▶▶ repeatedly during Program Play.
Check the total number of programmed tracks	Press DISPLAY on the unit in stop mode. The total number of programmed steps appears.
Add a track to the end of the program	Perform steps 3 and 4 in stop mode.
Clear a track from the end of program	Press CLEAR in stop mode or after step 4.

### Tips

- The program you made remains after Program Play finishes. To play the same program again, press MD ▶. However, the program is cleared when you remove the MD or press MD GROUP.
- “— — — —” appears when the total program time exceeds 1,000 minutes.
- If you operate this unit with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Playing only the tracks in the desired group

This function allows you to listen only to your favorite tracks which you have registered into a group. For details of the Group Function, see “Registering tracks in groups” on page 49.

- 1 Press FUNCTION repeatedly to switch the function to MD.**
- 2 Press MD GROUP in stop mode repeatedly until “GROUP ON” appears.**
- 3 Press GROUP SKIP repeatedly until the desired group appears.**
- 4 To start playing from a specific track in the group, press ◀◀ or ▶▶ repeatedly until the desired track appears.**

Proceed to step 5 when you start playing from the first track in the group.

- 5 Press MD ▶.**

Playback starts.

When the playing of the last track in the group finishes, the unit stops automatically.

### Note

If you select a group that does not have any tracks registered and press MD ▶, playback starts from the first track of the first group on the MD.

### Tip

You can change play mode (Normal Play/Shuffle Play/Repeat Play/Program Play) only for the tracks in the group. To select the desired play mode, select the play mode before step 3.

### Before you start recording

MDs (MiniDisc) let you digitally record and play music with high quality sound. Another feature of MDs is track marking. The track marking feature lets you quickly locate a specific point or easily edit the recorded tracks. However, depending on the source you record, the recording method and the way the track numbers are recorded differ.

#### When the source you record from is:

- **CDs loaded in this system's DVD player**

- The MD deck performs digital recording.\*
- However, the MD deck performs analog recording in manual recording.
- Track numbers are automatically marked as on the original CD. However, track numbers are not marked depending on the track (page 94).

- **DVDs, VIDEO CDs or MP3 discs loaded in this system's DVD player**

- The MD deck performs analog recording.
- A track number is marked at the beginning of a recording only, but when you turn on the Level Synchro Recording Function (page 44), track numbers are automatically marked on sync with the level of the input signal.

- **Super Audio CDs**

- This unit cannot record the HD layer of Super Audio CDs. However, it can record the CD layer of a Super Audio CD just as if it were a normal CD.
- Analog recording is possible if you connect an external device to TAPE OUT jacks on this unit (see page 79).

- **Other digital components connected to the DIGITAL OPTICAL IN jack**

- The MD deck performs digital recording.\*
- Track numbers are marked differently depending on the source you record.

- **This system's tuner or other analog components connected to the TAPE IN jacks**

- The MD deck performs analog recording.
- A track number is marked at the beginning of a recording only, but when you turn on the Level Synchro Recording Function (page 44), track numbers are automatically marked in sync with the level of the input signal.

- **A personal computer**

- Only tracks that have been checked out using the Net MD function can be recorded from a personal computer. For details, see the PDF file “SonicStage for Net MD” included on the supplied CD-ROM.

#### When you use a partially recorded MD

You cannot record while overwriting the recorded tracks.

Recording starts after the recorded tracks.

If you want to erase the recorded tracks, erase the tracks using Erase Function (page 54).

#### Note on MD track numbers

On an MD, the track numbers (track sequence), track start and end point information, etc., are recorded in the TOC\*\* area independent of the sound information. You can edit recorded tracks quickly by modifying the TOC information.

## About recording errors

- With the following kinds of discs, you may experience a reading failure or noise when recorded on an MD:
    - Discs with adhesive labels attached to them
    - Irregularly shaped discs (for example, heart- or star-shaped)
    - Discs with printed text concentrated on one side only
    - Scratched discs
    - Dirty discs
    - Warped discs
  - If the following occurs during CD playback or recording, a reading error may occur or noise may be produced in the recorded results:
    - The disc tray or other part of the system is bumped.
    - The system is placed on an uneven or soft surface.
    - The system is located near a speaker, door, or other source of vibration.
  - If the above reading errors occur, an extra soundless track may be created. You can erase these extra tracks using Erase Function (page 54).
- \* For details on the limitations of digital recording, see “Guide to the Serial Copy Management System” on page 95.

\*\* TOC: Table Of Contents

## After recording

**Press  $\blacktriangle$  on the front of the unit to remove the MD or press I/⏻ to turn off the system.**

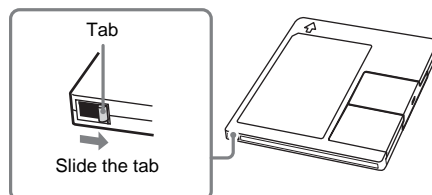
“TOC” starts flashing. The TOC is updated and recording is completed.

## Before pulling out the mains lead

MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC or while updating the TOC (while “TOC” lights up or flashes) to ensure a complete recording.

## Protecting a recorded MD

- To protect a recorded MD, slide the tab on the side of the MD to open the slot. In this position, the MD cannot be recorded. To record on the MD, slide the tab to close the slot.



- If the MD is record protected, “C11” and “Protected” appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position.

## Recording tips

### Recording for long times

This system has two long time recording modes: LP2 and LP4 (MDLP recording).

Press REC MODE on the unit to select the recording mode. Refer to the pages about recording (pages 40, 42 and 43).

MDs recorded in MDLP Stereo mode are played back only on the system with the following marks.

## MDLP MDLP

MDs recorded in MDLP Stereo mode cannot be played back on the system that does not support MDLP mode.

#### Notes

- Even if the recording mode is set to “MONO”, the sound from the speakers are output as recorded in the source (in stereo when recording the stereo source).
- Some MDs recorded in MDLP Stereo mode are edited so that “LP:” is displayed to indicate that playback is not possible when an attempt is made to play back these MDs on a system that does not support MDLP mode. However, this system supports MDLP mode, so “LP:” is not displayed when these MDs are played back.
- When playing back these MDs on a system that does not support MDLP mode, set the transfer mode during SonicStage Check-Out to “Stereo Transfer”. If transfer is performed in LP2 or LP4 mode, you will be unable to play back these MDs on a system that does not support MDLP mode.

#### Tips

- LP4 stereo mode (4× long time recording mode) achieves a long stereo recording time by use of a special compression system. When placing emphasis on sound quality, Stereo recording or LP2 stereo recording (2× long time recording mode) is recommended.
- You can mix the recording mode in an MD.
- The selected recording mode is kept even after recording has finished. To change the recording mode, press REC MODE on the unit repeatedly.

## High-Speed CD-MD Synchro Recording

When recording an entire CD as is or in the programmed track order, you can record at higher speed than normal (approximately 4× normal speed).

### If you cannot use High-Speed CD-MD Synchro Recording

#### When “Retry” flashes

A reading failure has occurred, and the system is trying to read the data again.

- If the retry was successful, the system continues with High-Speed CD-MD Synchro Recording.
- If the condition of the inserted CD or the system is poor, and retry fails, High-Speed CD-MD Synchro Recording is disabled. In this case, “Retry” and “NORM” flash in the display and the MD deck automatically starts recording in normal CD-MD Synchro Recording. Note that monitoring of the recorded signal is not possible when this occurs.

#### Notes

- You cannot record over existing tracks. The new tracks are recorded after the existing tracks.
- When recording all the tracks on a CD, be sure to use a recording MD with a longer remaining time than the CD play time.
- You cannot pause recording during CD-MD Synchro Recording and High-Speed CD-MD Synchro Recording.
- If the MD play mode is set to Repeat Play or Shuffle Play, it automatically switches to Normal Play.
- The following items are either inoperative or cannot be used during High-Speed CD-MD Synchro Recording:
  - The Auto Cut Function
  - The recording level specified in the Setup menu
- There is no sound during High-Speed CD-MD Synchro Recording.

# Recording a CD on an MD

## — CD-MD Synchro Recording/High-Speed CD-MD Synchro Recording

You can record a whole CD on an MD. You can select the recording time by switching the recording mode.

In addition to recording at normal speed, you can also record at high speed (approximately 4× normal speed).

Open the lid before performing the following operations.

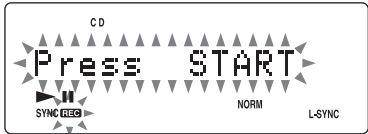
- 1 Load a recordable MD.
- 2 Press **FUNCTION** on the unit repeatedly to select DVD.
- 3 Load a CD you want to record.
- 4 Press **REC MODE** on the unit repeatedly to select the recording mode.

Select the desired recording time.

Recording time	Select (Recording mode)
Standard	no indication (stereo)
Double	LP2 (LP2 stereo)
Quadruple	LP4 (LP4 stereo)
Double (change the stereo signal to monaural)	MONO (monaural)

- 5 Press **SYNCHRO MODE** on the unit repeatedly until “CD→MD SYNC?” appears.  
To record using High-Speed CD-MD Synchro Recording, press the button until “HISPEED SYNC?” appears.
- 6 Press **ENTER/START** on the unit. “NORMAL SPEED” (or “HIGH SPEED” for high-speed recording) appears, then “Press START” flashes.

The MD deck stands by for recording and the DVD player pauses for play.



- 7 Press **ENTER/START** on the unit while “Press START” flashes.

Recording starts.

When the recording is completed, the DVD player and the MD deck stop automatically.

### To stop recording

Move MD stick to ■.

### To record using the Group Function

Press MD GROUP on the remote repeatedly until “GROUP ON” appears after step 3. Press GROUP SKIP on the remote repeatedly until “New Group” or the desired group appears after step 6.

### To record only your favorite CD tracks

You can record only your favorite CD tracks using the Program Play. Between steps 3 and 4, perform steps 1 to 5 of “Creating your own program” (page 19).

### Synchro recording from various discs

- For DVDs: Synchro recording is not possible. Perform manual recording (see page 42).
- For Super Audio CDs: Synchro recording (digital recording) of CD layers is possible just as if it were a normal CD.
- For video CDs/MP3s: High-speed CD to MD synchro recording is not possible. Recording automatically switches to normal speed synchro recording (analog recording).
- Video CDs: PBC playback is automatically released.

### Notes

- You cannot pause the recording.



- If the MD play mode is set to the Repeat Play or Shuffle Play, the play mode switches to Normal Play in step 5.
- The following items are either inoperative or cannot be used during recording a CD or CD layer part of Super Audio CD in CD-MD Synchro Recording:
  - The Auto Cut Function
  - The Track Mark Function
- The tracks are recorded with a recording level of 0.0 dB regardless of the recording level value set in the Setup Menu.
- The “LFE” setting in “Speaker Settings” automatically switches to “OFF”, even if it was previously set to “ON” in the settings screen (see page 33).
- You cannot change the surround sound effects setting during recording (see page 66).

### Tips

- For details about LP2/LP4 recording, see “Recording for long times” on page 39.
- For details on high-speed synchro recording, see “High-Speed CD-MD Synchro Recording” on page 39.

## Recording the current track

### — Rec It

You can easily record tracks you like to MD while listening to a disc.

Open the lid before performing the following operations.

- 1 Load a recordable MD.**
- 2 Press FUNCTION repeatedly to select DVD.**
- 3 Move SA-CD/DVD stick to ►II.**  
Playback starts.
- 4 Press REC/REC IT on the unit while listening to a track you want to record.**  
Play returns to the start of the track and recording starts. The MD deck stops automatically at the end of the track.

### To stop recording

Move MD stick to ■.

### Rec It recording from various discs

- DVD/Video CD/MP3: The MD deck performs analog recording.  
With analog recording, additional tracks may be recorded depending on the type of disc and track being recorded. When recording from a DVD, Rec It may not be available or single track recording may not be possible depending on the disc.
- Super Audio CD: The MD deck can digitally record the CD layer just as if it were a normal CD.

### Notes

- The following functions are not available while a CD or the CD layer of a Super Audio CD are being recorded with Rec It.
  - The Track Mark Function
  - The Auto Cut Function
- The tracks are recorded with a recording level of 0.0 dB regardless of the recording level value set in the Setup Menu.
- The “LFE” setting in “Speaker Settings” automatically switches to “OFF”, even if it was

**continued**

previously set to “ON” in the settings screen (see page 33).

- You cannot change the surround sound effects setting during recording (see page 66).

## Recording on an MD manually

### — Manual Recording

You can record just the portions you like from a disc, the tuner or other connected component. Open the lid before performing the following operations.

- 1 Load a recordable MD.**
- 2 Press FUNCTION repeatedly to select the desired source to record.**
  - DVD: To make an analog recording from this system's DVD player.
  - TAPE: To make analog recordings from an optional component.
  - OPTICAL IN: To make digital recordings from an optional components.
  - TUNER: To make analog recordings from this system's radio.

- 3 Press REC MODE on the unit repeatedly to select the recording mode.**

Select the desired recording time.

Recording time	Select (Recording mode)
Standard	no indication (stereo)
Double	LP2 (LP2 stereo)
Quadruple	LP4 (LP4 stereo)
Double	MONO (monaural)
(change the stereo signal to monaural)	

- 4 Press REC/REC IT on the unit.**

The MD deck stands by for recording.
- 5 Move MD stick to ►II, then start playing the desired source to record.**

### To stop recording

Move MD stick to ■.

## To record using the Group Function

Press MD GROUP repeatedly until “GROUP ON” appears after step 2. Press GROUP SKIP repeatedly until “New Group” or the desired group appears after step 4.

### Note

The “LFE” setting in “Speaker Settings” automatically switches to “OFF”, even if it was previously set to “ON” in the settings screen (see page 33).

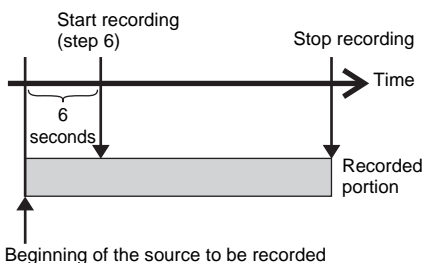
### Tips

- If you want to record manually in the middle of a track loaded in this system, move DVD stick to ►|| before step 4 to pause the playback, then move it to ►|| again in step 5 to start playback.
- You can check the remaining recordable time on the MD during recording by pressing DISPLAY on the unit.
- If cyclical static noise is heard while recording an AM radio program, move the AM loop aerial to reduce the noise.
- For details about LP2/LP4 recording, see “Recording for long times” on page 39.
- You can adjust the recording level (page 46).

## Starting recording with 6 seconds of prestored audio data

### — Time Machine Recording

When recording from an FM or satellite broadcast, the first few seconds of material are often lost due to the time it takes you to ascertain the contents and press the record button. To prevent the loss of this material, the Time Machine Recording feature constantly stores the most recent audio data in a buffer memory. This lets you record the sound from 6 seconds before starting recording, as shown in the illustration below:



Open the lid before performing the following operations.

- 1 Load a recordable MD.**
- 2 Press FUNCTION repeatedly to select the desired source to record.**
- 3 Press REC MODE on the unit repeatedly to select the recording mode.**

Select the desired recording time.

Recording time	Select (Recording mode)
Standard	no indication (stereo)
Double	LP2 (LP2 stereo)
Quadruple	LP4 (LP4 stereo)
Double	MONO (monaural)
(change the stereo signal to monaural)	

- 4 Press REC/REC IT on the unit.**

The MD deck stands by for recording.

**continued**

- 5** Start playing the desired source to record.
- 6** Press ENTER/YES at the desired point to start recording.

### To stop Time Machine Recording

Move MD stick to ■.

### To record using the Group Function

Press MD GROUP repeatedly until “GROUP ON” appears after step 2. Press GROUP SKIP repeatedly until “New Group” or the desired group appears after step 4.

#### Notes

- You cannot record from a disc (DVD, CD, etc.) with this system to an MD using this recording function.
- The MD deck starts storing audio data when the deck stands by for recording in step 4 and you start playing the source. If less than 6 seconds have passed when you press ENTER/YES, Time Machine Recording starts with less than 6 seconds of audio data.

#### Tip

For details about LP2/LP4 recording, see “Recording for long times” on page 39.

## Marking track numbers

### After recording

Use the Divide Function (page 58).

### At any point during recording

#### — Track Mark

You can mark track numbers during manual recording of any source.

**Press REC/REC IT on the unit during manual recording at the point you want to add a track mark.**

### Presetting to automatically mark track numbers before recording

#### — Level-Synchro Recording

The Level Synchro Recording Function is factory set to on, so the track numbers are automatically marked. Track numbers are automatically marked when the input signal is continuously below a certain level for more than two seconds and then exceeds that level. If “L-SYNC” does not appear during recording, turn on the Level Synchro Recording as follows. Open the lid before performing the following operations.

- 1** Press FUNCTION repeatedly to switch the function to MD.
- 2** Press MENU/NO.
- 3** Press ▲ or ▼ repeatedly until “Setup?” appears, then press ENTER/YES.
- 4** Press ▲ or ▼ repeatedly until “T.Mark Off” (or “T.Mark LSync”) appears, then press ENTER/YES.
- 5** Press ▲ or ▼ repeatedly until “T.Mark LSync” appears, then press ENTER/YES.

“L-SYNC” lights up.

## 6 Press MENU/NO.

To continue recording, follow the procedures described for each type of recording.

### Other operations

To	Do this
Turn off the Level Synchro Recording Function	In step 5, press $\blacktriangle$ or $\blacktriangledown$ repeatedly until "T.Mark Off" appears, then press ENTER/YES.
Change the trigger stick for Level Synchro Recording*	After step 3, press $\blacktriangle$ or $\blacktriangledown$ repeatedly until "LS(T)" appears, then press ENTER/YES. Press $\blacktriangle$ or $\blacktriangledown$ repeatedly to select the level between -72 dB and 0 dB (in 2 dB steps), press ENTER/YES, then press MENU/NO.

\* When the recording source is tape or radio program and the track numbers are not marked properly because of noise, set this level higher so that track numbers are marked easily. The factory setting is "-50 dB".

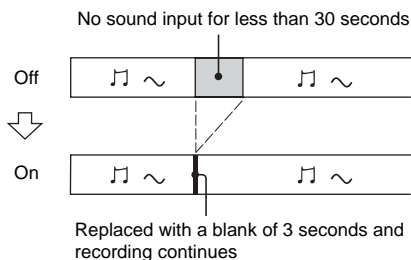
#### Notes

- Track numbers are not marked depending on the track.
- Track numbers are not marked automatically if the source sound to be recorded is noisy (e.g., tapes or radio programs).
- When recording a CD, track numbers are marked where you paused recording. In addition, the tracks might be recorded as the same single track with a single track number when the same single track of the same CD is recorded repeatedly.
- If you operate this unit with the lid closed, "OPEN" blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

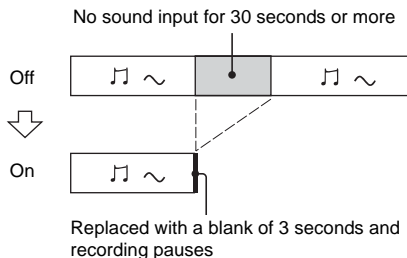
## Making a space between tracks 3 seconds long automatically

### — Smart Space

**Smart Space:** Lets you make the blank spaces between tracks 3 seconds long automatically while making a digital recording from a CD. For other types of recording, if the Smart Space Function is on and there is no sound input for about 3 seconds or more (but less than 30 seconds) while recording, the MD deck replaces this silence with a blank of about 3 seconds and continues recording. The Smart Space Function is factory set to on.



**Auto Cut:** When the Smart Space Function is on, if there is no sound input for 30 seconds or more, the MD deck replaces this silence with a blank of about 3 seconds and enters recording pause.



Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to switch the function to **MD**.
- 2** Press **MENU/NO**.
- 3** Press **▲** or **▼** repeatedly until **"Setup?"** appears, then press **ENTER/YES**.
- 4** Press **▲** or **▼** repeatedly until **"S.Space Off"** (or **"S.Space On"**) appears, then press **ENTER/YES**.
- 5** Press **▲** or **▼** repeatedly until **"S.Space On"** appears, then press **ENTER/YES**.
- 6** Press **MENU/NO**.

To continue recording, follow the procedures described for each type of recording.

### To turn off the Smart Space Function

In step 5, press **▲** or **▼** repeatedly until **"S.Space Off"** appears, then press **ENTER/YES**.

#### Note

If you operate this unit with the lid closed, **"OPEN"** blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Adjusting the recording level

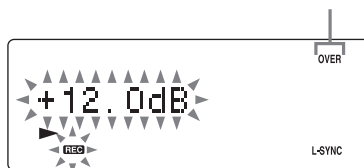
When recording on an MD, you can adjust the recording level to the desired volume. You can adjust the recording level not only when making an analog recording, but also when making a digital recording from a CD, etc.

Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to select the desired source to record.
- 2** Press **REC/REC IT** on the unit.  
The MD deck stands by for recording.
- 3** Start playing the desired source to record.
- 4** Press **MENU/NO** to display **"Setup?"**, then press **ENTER/YES**.
- 5** Press **▲** or **▼** repeatedly until **"LevelAdjust?"** appears, then press **ENTER/YES**.
- 6** Press **▲** or **▼** repeatedly to adjust the recording level.

Adjust to the optimum level while making sure that **"OVER"** does not appear in the display at the loudest portion.

Adjust the level so as not to light up **"OVER"**.



- 7** Press **ENTER/YES**.
- 8** Press **MENU/NO**.
- 9** Stop playing the sound source.

The MD deck stops.

To continue recording, follow the procedures described for each type of recording.

**Tips**

- You can also adjust the recording level during recording.
- Once adjusted, the recording level is maintained until you adjust it again.
- You cannot adjust the recording level during Synchro Recording or Rec It recording.

### Before you start editing

You can edit an MD only when:

- The MD is recordable.
- The MD play mode is Normal Play.

Check the following, before editing.

#### **1 Check the tab of the MD to be edited.**

Slide the tab to close the slot.

If the MD is protected, you cannot edit the MD.

#### **2 Press PLAY MODE repeatedly until both “SHUF” and “PGM” disappear.**

You can edit the MD only in Normal Play mode. You cannot edit the MD in Shuffle or Program Play mode.

### When editing an MD

#### **Open the lid of the unit before editing the MD**

If you start editing an MD with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.


#### **When “Tr Protect” appears**

Some tracks, such as those transferred to a Net MD (Check-Out), are protected. These tracks cannot be modified using certain editing functions.

#### **To quit while editing**

Press MENU/NO.

### After editing

**Press  on the front of the unit to remove the MD or press I/⏻ to turn off the system.**

“TOC” starts flashing. The TOC is updated and editing is completed.

### Before pulling out the mains lead

MD editing is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC or while updating the TOC (while “TOC” lights up or flashes) to ensure a complete editing.

#### **Note**

If you edit an MD while manually recording the MD to a tape, the sound (rehearsal sound, etc.) produced during the editing is recorded on the tape.

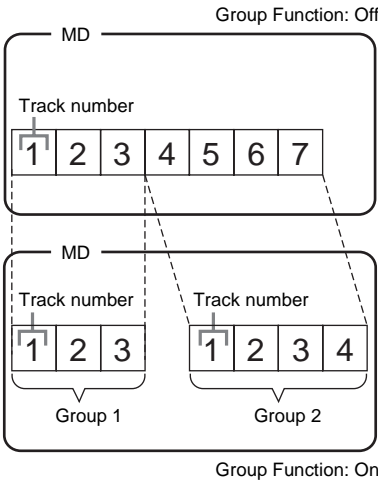


# Registering tracks in groups

## — Group Function

### What is the Group Function?

The Group Function allows you to play, record and edit the tracks on an MD in groups. For example, you can register tracks 1 to 5 on an MD to the “Rock” group, and tracks 6 to 9 to the “Pops” group. Then you can listen to the tracks in only the desired group, add new tracks to a group, and perform other operations. In addition, the Group Function can be easily turned on and off simply by pressing MD GROUP.



When the group function is turned on, track numbers within groups are renumbered, starting from track 1. In the above figure, for example, tracks 4 to 7 are renumbered to 1 to 4 when the group function is turned on.

### Operations using the Group Function

- Playing only the tracks in the desired group (page 36)
- Recording a CD (page 40)
- Recording on an MD manually (page 42)
- Starting recording with 6 seconds of prestored audio data (page 43)
- Labelling a group (page 50)
- Creating a new group (page 52)
- Releasing group registrations (page 53)

#### Note

MDs recorded using the Group Function of this system can be used with other system that supports the Group Function. However, note that the Group Function operations of other system may differ from the operations for this system.

### How is group information recorded?

When recording using the Group Function, the group management information is automatically recorded on the MD as the disc title. Specifically, a character string such as the following is written in the disc title recording area.

#### Disc title recording area

0 ; Favorites // 1 – 5 ; Rock // 6 – 9 ; Pops // ...

① ② ③

- ① The disc title is “Favorites”.
- ② Tracks 1 to 5 are registered in the “Rock” group.
- ③ Tracks 6 to 9 are registered in the “Pops” group.

Therefore, when an MD recorded using the Group Function is loaded on a system that does not support the Group Function or on this system with the Group Function turned off, the above character string is displayed in its entirety as the disc title.

**Note that if you rewrite this character string by mistake using the Name Function, you may be unable to use the Group Function of that MD.\***

\* “GROUP ON” flashes. To use the Group Function again, first perform the procedure for “Releasing all groups on an MD” (page 54) and release the registrations of all tracks on the MD.

#### Notes

- The Group Function setting is stored even if you eject the MD or turn off the system.
- When the Group Function is on, tracks which are not registered to a group are not displayed and cannot be played.
- You cannot change the group order.
- The new group is added after any existing groups with tracks registered.
- When you newly record a track into an existing group, the new track is added after any existing tracks in the group.
- Up to 99 groups can be registered on a single MD.
- When you newly record a track into an existing group, the track numbers following the newly recorded track may change when the Group Function is turned off.
- If you load a disc with group management information written in other than the proper format, “GROUP ON” flashes. In this case you cannot use the Group Function.

## Labelling an MD/group/track

### — Name Function

CD text information (song names) are recorded automatically during CD-MD syncro recording (page 40). However, this may not be possible with certain CDs.

In addition, DVD text information can be recorded automatically using Rec It (page 41). MP3 text information is not recorded automatically. After recording MP3s, enter the text information.

You can create titles for your recorded MDs, tracks, and groups as follows.

---

### After recording

Use Name Function.

You can input a total of approximately 1,700 characters for the disc title, track titles and group titles on a single MD.

**When labelling an MD recorded using the Group Function, be sure to label the disc with the Group Function on so as not to rewrite the group management information by mistake.**

For details on the group management information, see “How is group information recorded?” on page 49.

Open the lid before performing the following operations.

**1** Press **FUNCTION** repeatedly to switch the function to MD.

**2** Perform the following procedure depending on what you want to label:

#### To label a track

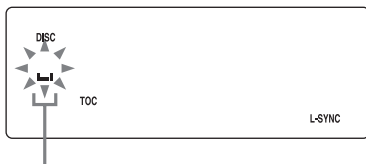
Press **◀◀** or **▶▶** repeatedly until the desired track number appears, then press **NAME EDIT/SELECT**.

## To label an MD

Press NAME EDIT/SELECT while the total number of tracks (or groups when the Group Function is on) is displayed.

## To label a group

Press MD GROUP repeatedly until “GROUP ON” appears, then press GROUP SKIP repeatedly until the desired group appears. Press NAME EDIT/SELECT while the total number of tracks within the desired group is displayed.



The cursor starts flashing.

## 3 Press NAME EDIT/SELECT to select the desired type of character.

Character type	Select
Alphabet (upper cases)/ blank space/symbols	Selected AB
Alphabet (lower cases)/ blank space/symbols	Selected ab
Numbers	Selected 12

## 4 Enter a character.

Character type	Do this
Alphabet	Press the corresponding letter button repeatedly until the character to be entered flashes, then press ➡.
Numbers	Press the corresponding number buttons.
Blank space	Press 10/0.
' - / , . ( ) : ! ?	Press 1 repeatedly.
& + < > _ = " ' ; # \$ % @ * ^ `	Press 1, then press ⬆ or ⬇ repeatedly.

## 5 Repeat steps 3 and 4 to enter the rest of the name.

## 6 Press ENTER/YES.

## To change the character

In step 3 or 4, press ⬅ or ➡ repeatedly until the character to be changed flashes, press CLEAR to erase the character, then repeat steps 3 and 4.

## To add a character

After steps 1 and 2, press ⬅ or ➡ repeatedly until the cursor comes to the point you want to add a character, then proceed to step 3.

### Note

If you enter the symbol “/” between the characters in disc titles such as “abc/def”, you may be unable to use the Group Function.

### Tip

You can label a track title during playback. The playback repeats until you finish labelling.

## Checking the titles

To check the disc titles, press DISPLAY in stop mode. To check the track title, press DISPLAY during playback. The title appears scrolling in the display.

To check the group titles, press MD GROUP repeatedly in stop mode until “GROUP ON” appears, press GROUP SKIP repeatedly until the desired group appears, then press DISPLAY.

## Erasing the titles

Open the lid before performing the following operations.

## 1 To erase group titles, press MD GROUP repeatedly in stop mode until “GROUP ON” appears.

## 2 Press MENU/NO in stop mode.

## 3 Press ⬆ or ⬇ repeatedly until “Nm Erase?” appears, then press ENTER/YES.

### To erase disc titles

Press ⬆ or ⬇ repeatedly until “Nm Ers Disc” appears, then press ENTER/YES.

### To erase track titles

Press ⬆ or ⬇ repeatedly until the desired track number appears, then press ENTER/YES.

### To erase group titles

Press GROUP SKIP repeatedly until the desired group number appears, then press ENTER/YES.

“Complete!” appears.

#### Note

You cannot erase the title of a group that does not have any tracks registered.

## Creating a new group

### — Create Function

The Create Function allows you to create a new group without registering any tracks, or to create a new group and register one or more consecutive tracks into that group. Only tracks that have not yet been registered into any group can be registered.

For details on the Group Function, see

“Registering tracks in groups” on page 49.

Open the lid before performing the following operations.

- 1** Press FUNCTION repeatedly to switch the function to MD.
- 2** Press MD GROUP repeatedly until “GROUP ON” appears.
- 3** Press MENU/NO.
- 4** Press  $\uparrow$  or  $\downarrow$  repeatedly until “Gp Create?” appears, then press ENTER/YES.
- 5** Perform steps 3 to 6 of “Labelling an MD/group/track” (page 50).
- 6** Press  $\uparrow$  or  $\downarrow$  repeatedly until “Assign None” appears, then press ENTER/YES.

#### Note

When creating a group without registering any tracks, you must enter the group title.

## To register tracks into a group

In step 6, press **▲** or **▼** repeatedly to select the number of the first track you want to register, then press **ENTER/YES**.

When registering only one track, press **ENTER/YES** again.

When registering two or more tracks, press **▲** or **▼** repeatedly to select the number of the last track you want to register, then press **ENTER/YES**.

### Notes

- You cannot register the same track to more than one group.
- If you do not enter a group title in step 5, “Group \*\* (group number)” appears as the group title.

### Tip

You can also register tracks that were recorded on a system that does not support the Group Function.

## Releasing group registrations

### — Release Function

These functions allow you to release group registrations simply by specifying the group for which you want to release the registrations. In addition, you can also release the registrations of all groups on an MD at once.

For details on the group management information, see “Registering tracks in groups” on page 49.

## Releasing a single group

### — Group Release Function

You can release a specified group and erase that group. (However, note that the tracks are not erased.)

Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to switch the function to MD.
- 2** Press **MD GROUP** repeatedly until “GROUP ON” appears.
- 3** Press **GROUP SKIP** repeatedly until the desired group appears.
- 4** Press **MENU/NO**.
- 5** Press **◀◀** or **▶▶** repeatedly until “Gp Release?” appears, then press **ENTER/YES**.  
“REL Gp\*\* (selected group number)??” appears.
- 6** Press **ENTER/YES**.

# Releasing all groups on an MD

## — All Release Function

You can release all groups on an MD at once. Open the lid before performing the following operations.

- 1 Press MD GROUP repeatedly in stop mode until “GROUP ON” appears.**
- 2 Press MENU/NO.**
- 3 Press  $\uparrow$  or  $\downarrow$  repeatedly until “Gp All REL?” appears, then press ENTER/YES.**  
“All REL??” appears.
- 4 Press ENTER/YES.**

# Erasing recordings

## — Erase Function

The MD deck lets you erase unwanted tracks quickly and easily.

You can restore the erased contents using the Undo function immediately after the erasing (page 59). However, you cannot restore the erased contents after performing other editing. Before erasing, make sure if it is all right to erase the content.

The three options for erasing recordings are:

- Erasing a single track (Track Erase Function)
- Erasing all tracks (All Erase Function)
- Erasing a portion of a track (A-B Erase Function)

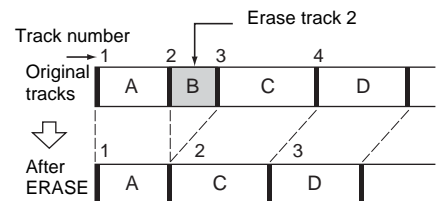
However, because tracks transferred to an MD using SonicStage (see page 78) are protected, they cannot be erased on this unit. To erase the track, first use SonicStage to return (Check-In) the track to the original transfer source (your computer).

## Erasing a single track

### — Track Erase Function

When you erase a track, the total number of tracks on the MD decreases by one and all the tracks following the erased one are renumbered.

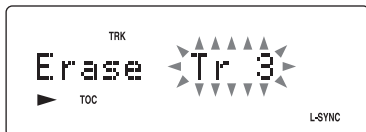
#### Example: Erasing track 2



As the track numbers are renumbered as above, it is recommended to erase from the latter tracks when erasing several tracks, so as not to change the track numbering of unerased tracks.

Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to switch the function to MD.
- 2** Press **MENU/NO**.
- 3** Press **▲** or **▼** repeatedly until “**Tr Erase?**” appears, then press **ENTER/YES**.  
Playback of the selected track starts.
- 4** Press **▲** or **▼** repeatedly until the desired track number appears.



- 5** Press **ENTER/YES**.  
“Complete!” appears. The track selected in step 4 is erased and playback of the following track starts. When you erase the last track, the playback of the previous track starts.

#### Note

If you erase all the tracks within a group, the group itself is also erased.

## Erasing all tracks

### — All Erase Function

You can erase all the contents recorded on an MD (the disc title, group titles, all recorded tracks and their titles) at once.

Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to switch the function to MD.
- 2** Press **MENU/NO**.
- 3** Press **▲** or **▼** repeatedly until “**All Erase?**” appears, then press **ENTER/YES**.  
“All Erase??” appears.
- 4** Press **ENTER/YES** again.

#### Note

If you perform the above operation when the Group Function is on, not only the tracks within the group, but all the tracks on the MD are erased.

## Erasing a portion of a track

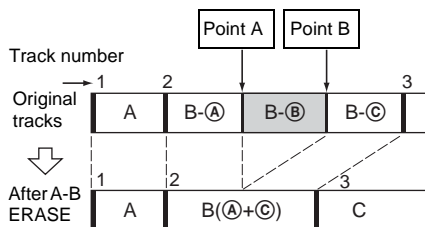
### — A-B Erase Function

You can specify a portion within a track and erase the portion with ease. You can shift the desired portion by frame\*, minute or second intervals.

This function is convenient to erase the unnecessary parts recorded from satellite broadcast or radio programs.

\* 1 frame is 1/86 second.

### Example: Erasing a portion of track 2



Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to switch the function to MD.
- 2** Press **MENU/NO**.
- 3** Press **▲** or **▼** repeatedly until “**A-B Erase?**” appears, then press **ENTER/YES**.  
Playback starts.
- 4** Press **▲** or **▼** repeatedly until the desired track number appears, then press **ENTER/YES**.
- 5** While monitoring the sound, press **ENTER/YES** at the starting point of the portion to be erased (point A).  
“—Rehearsal—” and “Point A ok?” appear alternately while the deck repeats a few seconds of a portion before point A.

continued

## 6 Press ENTER/YES if point A is correct.

“Point B set” appears and playback for setting the ending point of the portion to be erased (point B) starts.

**If the point A is incorrect**, press  $\uparrow$  or  $\downarrow$  repeatedly to find the starting point of the portion to be erased (point A) while monitoring the sound, then press ENTER/YES.

You can shift the point by 1/86 second (1 frame) intervals.\*

\* You can shift the point by 2-frame intervals (in Monaural mode and LP2 stereo mode) or by 4-frame intervals (in LP4 stereo mode).

## 7 Continue playback until the deck reaches point B, then press ENTER/YES.

“A-B Ers” and “Point B ok?” appear alternately and the deck repeats a portion of the few seconds before point A and after point B successively.

## 8 Press ENTER/YES if point B is correct.

“Complete!” appears for a few seconds and the portion between point A and B is erased. Playback starts from the beginning of the track.

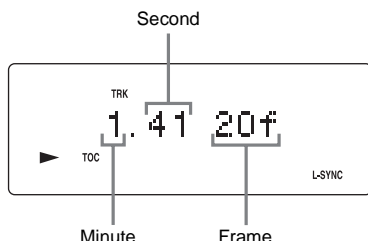
**If the point B is incorrect**, press  $\uparrow$  or  $\downarrow$  repeatedly to find the ending point of the portion to be erased (point B) while monitoring the sound, then press ENTER/YES.

You can shift the point by 1/86 second (1 frame) intervals.\*

\* You can shift the point by 2-frame intervals (in Monaural mode and LP2 stereo mode) or by 4-frame intervals (in LP4 stereo mode).

### Tip

To shift the point by minute or second intervals in steps 6 and 8, press  $\ll$  or  $\gg$  repeatedly to flash minute, second, or frame indication, then press  $\ll$  or  $\gg$ .

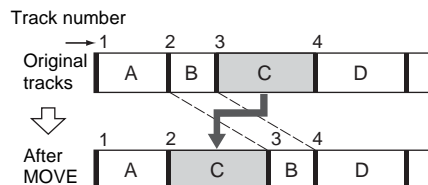


## Moving recorded tracks

### — Move Function

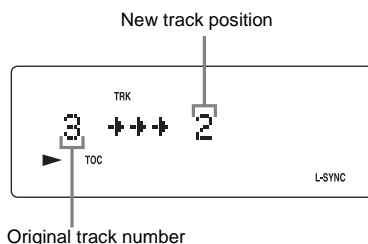
You can use this function to change the order of any track on the disc. When you move tracks, the tracks are automatically renumbered.

### Example: Moving track 3 to position 2



Open the lid before performing the following operations.

- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO**.
- 3 Press  $\uparrow$  or  $\downarrow$  repeatedly until “Move?” appears, then press ENTER/YES. Playback starts.
- 4 Press  $\uparrow$  or  $\downarrow$  repeatedly until the desired track number to move appears, then press ENTER/YES.
- 5 Press  $\uparrow$  or  $\downarrow$  repeatedly until the new track position appears.



## 6 Press ENTER/YES.

“Complete!” appears for a few seconds and the moved track starts playing.



## Note

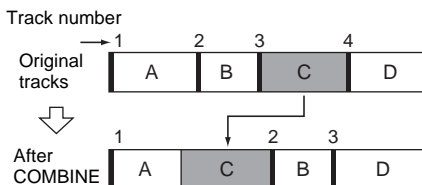
When you move a track to a track number that is registered into a group, the moved track is re-registered into the group. In addition, if you move a track that is registered into a group to a track number that is not registered into a group, the group registration of the moved track is released. However, when the Group Function is on, you can only move tracks within the selected group.

## Combining recorded tracks

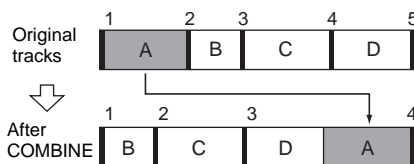
### — Combine Function

You can use this function to combine 2 tracks into a single track. The total number of tracks decreases by one and all tracks following the combined ones are renumbered.

#### Example: Combining track 3 to track 1



#### Example: Combining track 1 to track 4

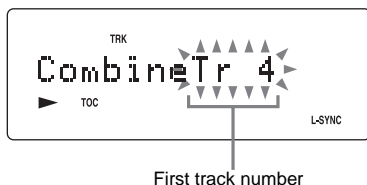


Open the lid before performing the following operations.

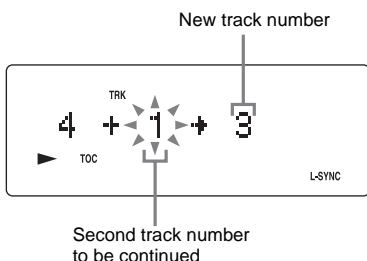
- 1** Press **FUNCTION** repeatedly to switch the function to MD.
- 2** Press **MENU/NO**.
- 3** Press **▲** or **▼** repeatedly until "Combine?" appears, then press **ENTER/YES**.  
Playback starts.

- 4** Press **↑** or **↓** repeatedly until the first track number of the two to be combined appears, then press **ENTER/YES**.

For example, to combine track 1 to 4, select 4.



- 5** Press **↑** or **↓** repeatedly until the second track number of the two to be combined appears.



- 6** Press **ENTER/YES**.

“Complete!” appears for a few seconds. Playback of the track starts.

#### Notes

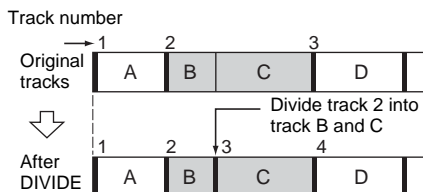
- When you combine two tracks that are registered into different groups, the second track is reregistered into the group containing the first track. In addition, if you combine a track that is registered to a group with a track that is not registered to a group, the second track takes the same registration setting as the first track. However, when the Group Function is on, you can only combine tracks within the selected group.
- Tracks recorded in different recording modes (stereo, LP2, LP4 or MONO) cannot be combined.
- If both of the combined tracks have track titles, the title of the second track is erased.

## Dividing recorded tracks

### — Divide Function

You can use this function to mark track numbers after recording. You can also use this function when recording from tapes or radio programs and track numbers are not marked automatically, and want to mark tracks. The total number of tracks increases by one and all the tracks following the divided ones are renumbered.

#### Example: Dividing track 2 into two tracks



Open the lid before performing the following operations.

- 1** Press **FUNCTION** repeatedly to switch the function to MD.
- 2** Press **MENU/NO**.
- 3** Press **↑** or **↓** repeatedly until “Divide?” appears, then press **ENTER/YES**.  
Playback starts.
- 4** Press **↑** or **↓** repeatedly until the desired track number to divide appears.
- 5** While monitoring the sound, press **ENTER/YES** at the point to be divided.  
“—Rehearsal—” appears and the portion to be divided is played repeatedly.

## 6 Press ENTER/YES again if the point to be divided is correct.

“Complete!” appears for a few seconds and the newly created track starts playing.

**If the point to be divided is incorrect,** press  $\uparrow$  or  $\downarrow$  to find the point to be divided, then press ENTER/YES.

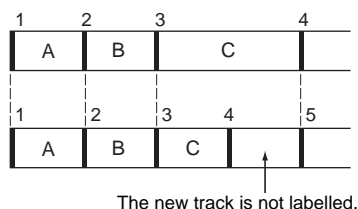
You can shift the point by 1/86 second (1 frame) intervals.\*

\* You can shift the point by 2-frame intervals (in Monaural mode and LP2 stereo mode) or by 4-frame intervals (in LP4 stereo mode).

### Note

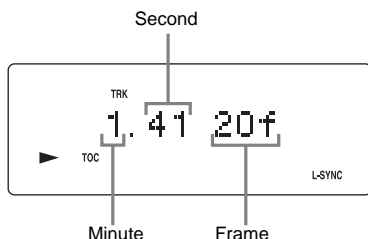
If you divide a labelled track (page 50) into two tracks, only the first track retains the track title.

Example:



### Tip

To shift the point by minute or second intervals in step 6, press  $\blacklozenge$  or  $\blacktriangleright$  repeatedly to flash minute, second, or frame indication, then press  $\uparrow$  or  $\downarrow$ .



## Undoing the last edit

### — Undo Function

You can use this function to cancel the last edit and restore the contents of the MD to the condition before the edit.

Note, however, that you cannot undo the edit if you do any of the following after the edit:

- Do another edit.
- Do the recording procedure.
- Activate the Net MD function.
- Update the TOC by turning off the system or ejecting the MD.
- Disconnect the mains lead.

Open the lid before performing the following operations.

**1 Press MENU/NO in stop mode.**

**2 Press  $\uparrow$  or  $\downarrow$  repeatedly until “Undo?” appears.**

“Undo?” does not appear when there is no editing function that can be cancelled.

**3 Press ENTER/YES.**

Following message appears depending on the last edit.

Editing	Message
Labelling discs or tracks	Name Undo?
Erasing the titles	
Creating a new group	
Releasing a group	Group Undo?
Releasing all groups	
Deleting a portion of a track	
Deleting a track	Erase Undo?
Deleting all the tracks	
Moving tracks	Move Undo?
Dividing a track	Divide Undo?
Combining tracks	Combine Undo?

**4 Press ENTER/YES again.**

### Note

You cannot undo the S.F Edit Function.

## Changing the recorded level after recording

### — S.F Edit Function

You can change the volume of recorded tracks using S.F (Scale Factor) Edit. The original track is recorded over at the new recording level. When changing the recording level, you can select Fade-in Recording to gradually increase the signal level at the start of recording, or Fade-out Recording to gradually decrease the signal level at the end of the recording.

## Changing the overall recording level

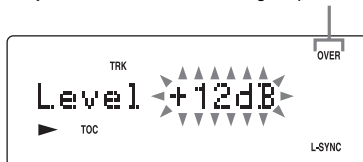
Open the lid before performing the following operations.

- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **PLAY MODE** in stop mode repeatedly until both “SHUF” and “PGM” disappear.
- 3 Press **MENU/NO**.
- 4 Press **↑** or **↓** repeatedly until “S.F Edit?” appears, then press **ENTER/YES**.
- 5 Press **↑** or **↓** repeatedly until “Tr Level?” appears, then press **ENTER/YES**.  
Playback starts.
- 6 Press **↑** or **↓** repeatedly until the track number you want to change the recording level appears, then press **ENTER/YES**.  
“Level 0 dB” appears.

- 7 While monitoring the sound, press **◀◀** or **▶▶** repeatedly to change the recorded level.

The recording level can be changed from -12 dB to +12 dB, in 2 dB steps. Change to the optimum level while making sure that “OVER” does not appear in the display at the loudest portion.

Adjust the level so as not to light up “OVER”.



- 8 Press **ENTER/YES**.  
“S.F Edit OK?” appears.
- 9 Press **ENTER/YES** again.

The system starts recording over the existing track.

“S.F Edit: \*\* %” appears while the track is being recorded. An amount of time that is roughly equal to or longer than the playback time of the track is required when recording over the track. When the recording finishes, “Complete!” appears.

## Fade-in and Fade-out Recording

Open the lid before performing the following operations.

- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **PLAY MODE** in stop mode repeatedly until both “SHUF” and “PGM” disappear.
- 3 Press **MENU/NO**.
- 4 Press **↑** or **↓** repeatedly until “S.F Edit?” appears, then press **ENTER/YES**.
- 5 Press **↑** or **↓** repeatedly until “Fade In?” or “Fade Out?” appears, then press **ENTER/YES**.  
Playback starts.

- 6** Press **↑** or **↓** repeatedly until the track number you want to change the recording level appears, then press **ENTER/YES**.

“Time5.0s” appears.

- 7** While monitoring the sound, press **↑** or **↓** repeatedly to change the Fade-in or Fade-out recording time.

The system plays the portion that will be recorded over using Fade-in or Fade-out Recording. You can set the time at any value between 1.0 second and 15.0 seconds, in 0.1 second steps. You cannot set the time longer than the track.

- 8** Press **ENTER/YES**.

“S.F Edit OK?” appears.

- 9** Press **ENTER/YES** again.

The system starts recording over the existing track.

“S.F Edit: \*\* %” appears while the track is being recorded. When the recording finishes, “Complete!” appears.

## To cancel the operation

Press **MENU/NO** during step 4 through 8. After pressing **ENTER/YES** in step 9 to start recording, you cannot interrupt the operation.

### Notes

- Do not disconnect the mains lead or move the system while recording is in progress. This may damage the recording data preventing recording from being performed properly.
- You cannot change the recording level of the tracks recorded in MDLP mode.
- Repeatedly changing the recording level results in poor sound quality.
- The recording level will not return to the exact original level once the recording level has been changed even if it returned to the original level.
- The recording level cannot be changed while the timer is activated.
- You cannot undo the S.F Edit Function even if you use the Undo Function.

## Tuner

# Presetting radio stations

You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

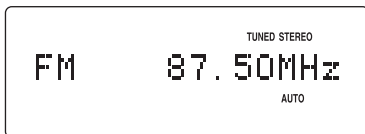
Open the lid before performing the following operations.

## Automatic tuning preset

You can automatically tune in all of the stations that can be received in your area and then manually store the radio frequency of the desired stations.

- 1 Press TUNER/BAND repeatedly (or move TUNER stick on the unit to FM or AM) to select “FM” or “AM”.**
- 2 Press TUNING MODE repeatedly until “AUTO” appears.**
- 3 Press TUNING + or – on the remote repeatedly until the frequency indication starts to change, then release it.**

The frequency changes as the system scans for a station. Scanning stops automatically when a station is tuned in. At that time, “TUNED” and “STEREO” (for an FM stereo program) appear.



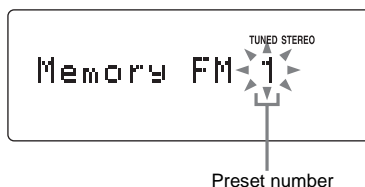
**If “TUNED” does not appear and the scanning does not stop**

Set the frequency of the desired radio station as described in steps 2 and 3 of “Manual tuning preset”.

- 4 Press MENU/NO.**

- 5 Press ↑ or ↓ repeatedly to select “Memory?”, then press ENTER/YES.**

A preset number flashes. Perform steps 6 and 7 while the preset number flashes.



- 6 Press ↑ or ↓ (or move TUNER stick on the unit to + or –) repeatedly to select the desired preset number.**
- 7 Press ENTER/YES.**  
“Complete!” appears.
- 8 Repeat steps 1 through 7 to store other stations.**

### Tips

- Press TUNING MODE to stop scanning.
- If you operate this unit with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Manual tuning preset

You can manually tune in and store the radio frequency of the desired stations.

- 1 Press TUNER/BAND repeatedly (or move TUNER stick on the unit to FM or AM) to select “FM” or “AM”.**
- 2 Press TUNING MODE repeatedly until both “AUTO” and “PRESET” disappear.**
- 3 Press TUNING + or – on the remote repeatedly to tune in the desired station.**
- 4 Press MENU/NO.**
- 5 Press ↑ or ↓ repeatedly to select “Memory?”, then press ENTER/YES.**  
A preset number flashes. Perform steps 6 and 7 while the preset number flashes.
- 6 Press ↑ or ↓ (or move TUNER stick on the unit to + or –) repeatedly to select the desired preset number.**

**7 Press ENTER/YES.**

“Complete!” appears.

**8 Repeat steps 1 through 7 to store other stations.****Other operations**

To	Do this
Tune in a station with a weak signal	Follow the procedure described in “Manual tuning preset”.
Set another station to the existing preset number	Start over from step 1. After step 5, press $\blacktriangle$ or $\blacktriangledown$ (or move TUNER stick on the unit to + or –) repeatedly to select the preset number you want to store the other station.

**To improve tuner reception**

When tuner reception is poor, set DVD player power off by DVD power manage function. DVD power is factory set to on.

**1** Press SA-CD/DVD.

**2** Press I/⏻ to turn off the system.

**3** Press I/⏻ on the unit while pushing the DVD stick towards ■. “DVD POWER OFF” appears.

**To set DVD power on**

Repeat the procedure above and “DVD POWER ON” appears.

**Notes**

- When “DVD POWER OFF” is selected, DVD access time is increased.
- You cannot change the setting in Power Saving Mode.

**Tips**

- The preset stations are retained for about a day even if you disconnect the mains lead or if a power failure occurs.
- You can label the preset stations “Labelling the preset stations” (page 65).
- To improve the reception, adjust the supplied antennas or connect an external antenna.
- To confirm the content of displayed messages, open the lid on the unit when “OPEN” is displayed.
- To operate the unit with the lid closed, perform step 2 in “Manual tuning preset” to display “Manual”.

**To change the AM tuning interval**

The AM tuning interval is factory-preset to 9 kHz (or 10 kHz for some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding FUNCTION, press I/⏻. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure. Use buttons on the unit for the operation.

**Tips**

- The preset stations are retained for half a day even if you disconnect the mains load or if a power failure occurs.
- To improve the reception, adjust the supplied antennas or connect an external antenna.

## Listening to the radio

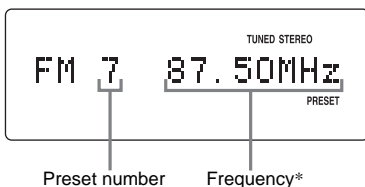
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

### Listening to a preset station

#### — Preset Tuning

Preset radio stations in the tuner's memory first (see "Presetting radio stations" on page 62).

- 1 Press TUNER/BAND repeatedly (or move TUNER stick on the unit to FM or AM) to select "FM" or "AM".**
- 2 Press TUNING MODE repeatedly until "PRESET" appears.**
- 3 Press TUNING + or – repeatedly to select the desired preset station.**



\* The station name appears only if you have labelled the station (see "Labelling the preset stations" on page 65).

### To select the desired preset number using the number buttons

Press number buttons instead of performing step 3. To enter preset number 10 or higher, press >10 and the corresponding number buttons. To enter 0, press 10/0.

#### Tip

After step 1, you can also use PRESET +/- to select a preset number.

## Listening to a non-preset radio station

#### — Manual Tuning

- 1 Press TUNER/BAND repeatedly (or move TUNER stick on the unit to FM or AM) to select "FM" or "AM".**
- 2 Press TUNING MODE repeatedly until both "AUTO" and "PRESET" disappear.**
- 3 Press TUNING + or – on the remote repeatedly to tune in the desired station.**

#### Tips

- When an FM stereo program has static noise, press FM MODE repeatedly until "MONO" appears. There will be no stereo effect, but the reception will improve.
- Press TUNING MODE repeatedly until "AUTO" appears in step 2 above, then press + or – on the remote. The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- To record the radio programs, use manual recording (page 42).
- If reception is bad, do the following.
  - Switch the system function to DVD, then press I/⏻ to turn off the system.
  - While pushing the SA-CD/DVD stick towards ■, press I/⏻ on the unit. ("DVD POWER OFF" appears.)
- To improve the reception, adjust the supplied antennas or connect an external antenna.
- To operate the unit with the lid closed, perform step 2 in "Listening to a non-preset radio station" to display "Manual".
- You can also move TUNER stick towards + or – to tune in desired stations.



# Labelling the preset stations

## — Station Name

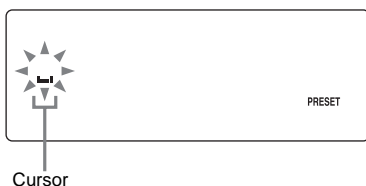
You can label each preset station with up to 12 characters (Station Name).

Open the lid before performing the following operations.

**1** Tune in the preset radio station you want to label (see “Listening to the radio” on page 64).

**2** Press NAME EDIT/SELECT.

The cursor starts flashing.



**3** Perform steps 3 to 6 of “Labelling an MD/group/track” (page 50).

### To cancel labelling

Press MENU/NO.

### To erase the station name

**1** Tune in the preset station you want to erase the station name.

**2** Press NAME EDIT/SELECT.

**3** Press CLEAR repeatedly to erase the name.

**4** Press ENTER/YES.

### Note

If you operate this unit with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Sound Adjustment

### Adjusting the sound

You can adjust the bass and treble to enjoy more powerful sound.

#### Generating a more dynamic sound (Dynamic Bass Feedback)

**Press DBFB.**

To cancel the DBFB, press DBFB again.  
The DBFB is factory set to on.

#### Adjusting the bass and treble

- 1 Press BASS/TREBLE repeatedly to select "BASS" or "TREBLE".**  
Each time you press the button, the display changes as follows:  
BASS ↔ TREBLE
- 2 Press MENU ◀◀ or ▶▶ repeatedly to adjust the level while "BASS" or "TREBLE" appears.**

#### Tip

When the unit is operated with the lid closed, select "Bas" or "Tre" in step 1.

## Enjoying surround sound

When the function is set to DVD you can select surround sound according to your needs.

**Press SOUND FIELD repeatedly.**

Each time you press the button, the display changes cyclically as follows:

VIRTUAL → NIGHT → NIGHT/VIRTUAL  
→ S FIELD OFF

Display	Sound effect
VIRTUAL	Virtual surround
NIGHT	Night mode
NIGHT/ VIRTUAL	Night mode and virtual surround
S FIELD OFF	None

#### • Virtual surround

This function uses audio processing to allow you to enjoy surround sound from multi-channel audio signals using only your front speakers.

#### • Night mode

This function allows you to retain a theater like environment and hear dialog clearly when watching movies at low volume levels, such as late at night.

#### Notes

- Pressing SOUND FIELD while recording will not change the surround effect.
- The surround effect may not be obvious with certain discs.

## Falling asleep to music

### — Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music.

#### Press SLEEP.

Each time you press the button, the minute display (the turn-off time) changes cyclically as follows:

AUTO\* → 90MIN → 80MIN → 70MIN  
→ ... → 10MIN → SLEEP OFF

\* The system automatically turns off in 240 minutes or after the current disc or MD finishes playing.

### Other operations

To	Press
Check the remaining time**	SLEEP once.
Change the time to turn off	SLEEP repeatedly to select the time you want.
Cancel the Sleep Timer Function	SLEEP repeatedly until "SLEEP OFF" appears.

\*\* You cannot check the remaining time if you select "AUTO".

#### Notes

- You cannot turn off the TV power using the Sleep Timer.
- Do not set to "AUTO" during Synchro Recording on an MD.
- You cannot use the Sleep Timer while the Net MD function is on.
- During S.F Edit operation, the system does not turn off automatically even when the designated time has elapsed. The system turns off after the S.F Edit operation finishes.

#### Tip

You can use the Sleep Timer, even if you have not set the clock.

## Waking up to music

### — Play Timer

You can wake up to music at a preset time. Make sure you have set the clock (see "Setting the clock" on page 10).

Open the lid before performing the following operations.

#### 1 Prepare the sound source you want to play.

- DVD: Load a disc. To start from a specific track, make a program (see "Creating your own program" on page 19).
- MD: Load a MD. To start from a specific track, make a program (see "Programming MD tracks" on page 35).
- Tuner: Tune in the preset radio station (see "Listening to the radio" on page 64).

#### 2 Press VOLUME + or – to adjust the volume.

#### 3 Press CLOCK/TIMER SET.

#### 4 Press ↑ or ↓ repeatedly to select "PLAY SET?", then press ENTER/YES.

#### 5 Press ↑ or ↓ repeatedly until the desired type of timer appears.

- PLAY ONCE?: The timer activates only once.
- PLAY DAILY?: The timer activates at the same time every day.
- PLAY WEEKLY?: The timer activates at the same time on the set day of every week.

#### 6 Press ENTER/YES.

When you select "PLAY ONCE?" or "PLAY WEEKLY?" in step 5, the day of the week indication flashes.

Proceed to step 9 when you select "PLAY DAILY?" in step 5.

#### 7 Press ↑ or ↓ repeatedly to set the day of the week that the timer activates.

#### 8 Press ENTER/YES.

The hour indication flashes.

## 9 Set the time to start playing.

Press **▲** or **▼** repeatedly to set the hour, then press ENTER/YES.

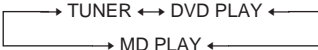
The minute indication flashes.

Press **▲** or **▼** repeatedly to set the minute, then press ENTER/YES.

## 10 Set the time to stop playing following the same procedure as step 7 to 9.

## 11 Press **▲** or **▼** repeatedly until the desired sound source appears.

Each time you press the button, the display changes cyclically as follows:



## 12 Press ENTER/YES.

The timer settings appear, then the original display returns.

## 13 Press **I/⏻** to turn off the system.

### Other operations

To	Do this
Check the setting/ active the timer	<b>1</b> Press CLOCK/TIMER SELECT. <b>2</b> Press <b>▲</b> or <b>▼</b> repeatedly until “TIMER SELECT?” appears, then press ENTER/YES. <b>3</b> Press <b>▲</b> or <b>▼</b> repeatedly until “PLAY ON?” appears, then press ENTER/YES.
Change the setting	Start over from step 1.
Cancel the timer	<b>1</b> Press CLOCK/TIMER SELECT. <b>2</b> Press <b>▲</b> or <b>▼</b> repeatedly until “TIMER OFF?” appears, then press ENTER/YES.

### To cancel the operation

Press MENU/NO.

### Notes

- If you use the Play Timer and the recording timer at the same time, the recording timer has priority.
- If you use the Play Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- The system turns on 30 seconds before the preset time. Do not operate the system from the time the system turns on until the play starts.
- If the system is on 30 seconds before the preset time, the Play Timer will not be activated.
- You cannot use the optional component connected to TAPE IN or DIGITAL OPTICAL IN jacks as the sound source for Play Timer.

### Tip

If you operate this unit with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

# Timer recording radio programs

- You can record a preset radio station from a specified time.
- To timer record, you must first preset the radio station (see “Presetting radio stations” on page 62) and set the clock (see “Setting the clock” on page 10).
- Open the lid before performing the following operations.
- 1 Tune in the preset radio station (see “Listening to a preset station” on page 64).**
  - 2 Press CLOCK/TIMER SET.**
  - 3 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to select “REC SET?”, then press ENTER/YES.**
  - 4 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the timer number (e.g., “REC 1”) you want to set appears, then press ENTER/YES.**
  - 5 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the desired type of timer appears.**
    - ONCE?: The timer activates only once.
    - DAILY?: The timer activates at the same time every day.
    - WEEKLY?: The timer activates at the same time on the set day of every week.
  - 6 Press ENTER/YES.**

When you select “ONCE?” or “WEEKLY?” in step 5, the day of the week indication flashes.

Proceed to step 9 when you select “DAILY?” in step 5.
  - 7 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to set the day of the week that the timer activates.**
  - 8 Press ENTER/YES.**

The hour indication flashes.
  - 9 Set the time to start recording.**

Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to set the hour, then press ENTER/YES.

The minute indication flashes.

Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to set the minute, then press ENTER/YES.

- 10 Set the time to stop recording following the same procedure as step 7 to 9.**
- 11 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to select the recording mode (e.g., “LP2”), then press ENTER/YES.**

The timer recording settings appear, then the original display returns.

- 12 Load a recordable MD.**
- 13 Press I/⏻ to turn off the system.**

## Other operations

To	Do this
Check the setting	<ol style="list-style-type: none"> <li>1 Press CLOCK/TIMER SELECT.</li> <li>2 Press <math>\blacktriangle</math> or <math>\blacktriangledown</math> repeatedly until “TIMER SELECT?” appears, then press ENTER/YES.</li> <li>3 Press <math>\blacktriangleleft</math> or <math>\blacktriangleright</math> repeatedly until the timer number (e.g., “REC 1”) you want to check appears, then press ENTER/YES.</li> </ol>
Change the setting	Start over from step 1.
Active/cancel the timer	<ol style="list-style-type: none"> <li>1 Press CLOCK/TIMER SELECT.</li> <li>2 Press <math>\blacktriangle</math> or <math>\blacktriangledown</math> repeatedly until “TIMER SELECT?” appears, then press ENTER/YES.</li> <li>3 Press <math>\blacktriangleleft</math> or <math>\blacktriangleright</math> repeatedly to display the timer number (e.g., “REC 1”) you want to activate/cancel.</li> <li>4 Press <math>\blacktriangle</math> or <math>\blacktriangledown</math> repeatedly to select the timer number (active the timer) or “-” (cancel the timer), then press ENTER/YES. If the timer is not set, “.” appears.</li> </ol>

## To cancel the operation

Press MENU/NO.

## Notes

- If you use the recording timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- The system turns on 30 seconds before the preset time. Do not operate the system from the time the system turns on until the play starts.
- If the system is on 30 seconds before the preset time, the recording timer will not be activated.
- The volume is reduced to minimum during recording.
- When you record on an MD, if recording timer is set with the Group Function on but no group is specified, the material is recorded into a new group.

## Tips

- When you record from the radio, the station name (or the frequency when the station is not labelled (page 65)) is recorded on an MD together with the start time and the stop time.
- If you start editing an MD with the lid closed, “OPEN” blinks in the front panel display. Open the lid and confirm the displayed message before proceeding.

## Display

### Turning off the display

#### — Power Saving Mode

The clock display can be turned off to minimize the amount of power consumed during standby (Power Saving Mode).

**Press DISPLAY on the unit repeatedly while the system is off until the clock display disappears.**

#### To cancel Power Saving Mode

Press DISPLAY on the unit while the system is off. Each time you press the button, the display switches cyclically as follows:

Clock display\* → No display (Power Saving Mode)

\* “—:—:—” appears if you have not set the clock.

#### Tip

The timer continues to operate in Power Saving Mode.

## Viewing information about the disc in the display

You can check the playing time and remaining time of the current track or that of the disc.

When a DVD/CD-TEXT disc or a disc with MP3 audio tracks or JPEG image file is loaded, you can also check the information recorded on disc, such as the titles.

### Information displayed when the lid is closed

**The function name is displayed (when the DVD function is selected, the disc type is displayed). Press DISPLAY to switch to the time display.\***

\* The display automatically switches back to the function name after a few moments.

#### Notes

- If the lid is closed, you will need to open the lid to see the displayed information. When the lid is open you can see the entire display.
- If "OPEN" flashes in the front panel display (see "About the front panel display" on page 10), be sure to open the lid and confirm the displayed message before proceeding.

### Checking the remaining time and titles (DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG)

Open the lid before performing the following operations.

**Press DISPLAY on the unit during Normal Play.**

Each time you press the button, the display changes cyclically as follows:

#### ■ When playing a DVD

Current title number and elapsed playing time  
 → Current title number and remaining time<sup>\*1</sup>  
 → Current chapter number and elapsed playing time<sup>\*1</sup> → Current chapter number and remaining time<sup>\*1</sup> → Title<sup>\*2</sup> → Clock display<sup>\*3</sup>  
 → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

#### ■ When playing a CD/Super Audio CD/VIDEO CD without PBC function

Current track number and elapsed playing time<sup>\*4</sup>  
 → Current track number and remaining time<sup>\*4</sup>  
 → Elapsed playing time of the disc<sup>\*5</sup> → Remaining time of the disc<sup>\*5</sup> → Track title<sup>\*2</sup> → Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

#### ■ When playing an MP3

Current track number and elapsed playing time  
 → Current track number and remaining time → Track title (file name)<sup>\*2</sup> → Album (folder) name<sup>\*2\*6</sup> → Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

#### Notes

- ID3 tags support only version 1.
- When an ID3 tag is recorded on the current MP3 file, the ID3 information appears in place of the track title (file name).
- The ID3 tag character code conforms to ASCII and ISO9660. Joliet format discs display only in ASCII. Characters that do not support ASCII or ISO9660 are not displayed correctly.
- When the MP3 bit rate is VBR (Variable Bit Rate), the MP3 elapsed playing time and remaining time may not be displayed correctly.

#### ■ When playing a JPEG

Current file number → File name<sup>\*2</sup> → Album (folder) name<sup>\*2\*6</sup> → Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

<sup>\*1</sup> Depending on the disc or play mode, the disc information may not be displayed.

<sup>\*2</sup> Only alphabet letters and numbers can be displayed. The disc that does not include the alphabet information is skipped.

<sup>\*3</sup> After a short time, the display returns to the top item.

<sup>\*4</sup> When playing VIDEO CDs with PBC functions, only the playing time of the scene is displayed.

<sup>\*5</sup> These are not displayed during Shuffle Play or Program Play.

<sup>\*6</sup> When the text information finishes scrolling, the display returns to the top item.

---

## Checking the remaining time and titles (MD)

Open the lid before performing the following operations.

### Press **DISPLAY** on the unit during Normal Play.

Each time you press the button, the display changes cyclically as follows:

Current track number and elapsed playing time  
→ Current track number and remaining time →  
Remaining time of the MD<sup>\*1</sup> → Track title<sup>\*2</sup> →  
Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

<sup>\*1</sup> When the Group Function is on, the remaining time of all tracks in the group is displayed.

<sup>\*2</sup> Only when the track is labelled.

<sup>\*3</sup> After a short time, the display returns to the top item.

---

## Checking the total playing time and titles (DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG)

Open the lid before performing the following operations.

### Press **DISPLAY** on the unit in stop mode.

Each time you press the button, the display changes cyclically as follows:

#### ■ When a DVD/VIDEO CD/CD/Super Audio CD is in stop mode

Total number of titles<sup>\*1</sup> or total number of tracks and the total playing time<sup>\*2</sup> → Disc title<sup>\*3</sup> →  
Clock display<sup>\*4</sup> → Bass level<sup>\*4</sup> → Treble level<sup>\*4</sup>

<sup>\*1</sup> For discs with DVD

<sup>\*2</sup> For discs with VIDEO CD/CD/Super Audio CD

<sup>\*3</sup> The disc that does not include the alphabet information is skipped.

<sup>\*4</sup> After a short time, the display returns to the top item.

#### ■ When an MP3/JPEG is in stop mode

Total number of albums (folders)<sup>\*1</sup> → Disc title<sup>\*2</sup> → Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

<sup>\*1</sup> When “ALBM” or “ALBM SHUF” is displayed, or an album is selected by pressing ALBUM +, the total number of tracks (for MP3) or total number of files (for JPEG) is displayed.

<sup>\*2</sup> When “ALBM” or “ALBM SHUF” is displayed, or an album is selected by pressing ALBUM +, the album (folder) name is displayed.

<sup>\*3</sup> After a short time, the display returns to the top item.

---

## Checking the total playing time and titles (MD)

Open the lid before performing the following operations.

### Press **DISPLAY** on the unit in stop mode.

Each time you press the button, the display changes cyclically as follows:

Total number of tracks and the total playing time<sup>\*1</sup> → Remaining recordable time (recordable MD only) → Disc title<sup>\*2</sup> → Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

<sup>\*1</sup> When the Group Function is on, the total number of groups (when no group is selected) or the total number of tracks and the total playing time within the group (when a group is selected) are displayed. “-----” appears when the total playing time of the MD exceeds 1,000 minutes.

<sup>\*2</sup> Only when the disc is labelled. When the Group Function is on, the group title is displayed.

<sup>\*3</sup> After a short time, the display returns to the top item.

---

## Checking the station name (TUNER)

Open the lid before performing the following operations.

### Press **DISPLAY** on the unit while listening to the radio.

Each time you press the button, the display changes cyclically as follows:

Station name<sup>\*1</sup> → Preset number and frequency<sup>\*2</sup> → Clock display<sup>\*3</sup> → Bass level<sup>\*3</sup> → Treble level<sup>\*3</sup>

<sup>\*1</sup> Only when the preset station is labelled.

<sup>\*2</sup> When a radio station name is labelled, it appears for a short time and then the display returns to the top item.



\*3 After a short time, the display returns to the top item.

### Note

Depending on the DVD, the disc information may not be displayed or the display may not be changed.

### Tips

- To label a disc, tracks, and groups, see “Labelling an MD/group/track” on page 50.
- To label the preset stations, see “Labelling the preset stations” on page 65.
- You can check the playing time of the disc using the Control Menu (see “Viewing information about the disc in the on-screen display” on page 73).

## Viewing information about the disc in the on-screen display

You can check the playing time and remaining time of the current title, chapter, or track, and the total playing time of the disc.

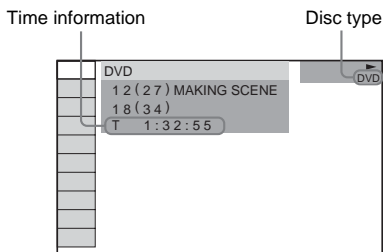
You can also check the DVD/CD text and file/album name recorded on the disc.

### 1 Press DVD DISPLAY during play.

The Control Menu appears.

### 2 Press DISPLAY on the unit to change the time information.

The display and the kinds of time that you can change depend on the disc you are playing.



### ■ When playing a DVD

- T \*\*:\*\*:\*\*  
Elapsed playing time of the current title
- T\_ \*\*:\*\*:\*\*  
Remaining time of the current title
- C \*\*:\*\*:\*\*  
Elapsed playing time of the current chapter
- C\_ \*\*:\*\*:\*\*  
Remaining time of the current chapter
- \*\*:\*\*:\*\*  
Elapsed playing time of the menu or current title without chapter.

### ■ When playing a VIDEO CD (with PBC function)

- \*\*:\*\*:\*\*  
Elapsed playing time of the current scene

### ■ When playing a VIDEO CD (without PBC function)/CD/Super Audio CD

- T \*\*:.\*\*  
Elapsed playing time of the current track
- T\_\*\*:.\*\*  
Remaining time of the current track
- D \*\*:.\*\*  
Elapsed playing time of the current disc
- D\_\*\*:.\*\*  
Remaining time of the current disc

### ■ When playing an MP3

- T \*\*:.\*\*  
Elapsed playing time of the current track
- T\_\*\*:.\*\*  
Remaining time of the current track

### To turn off the Control Menu

Press DVD DISPLAY.

#### Notes

- Only alphabet letters and numbers can be displayed. Anything else is displayed “ ”.
- Depending on the disc being played, the system can only display a limited number of characters. Also, depending on the disc, all text characters are not displayed.

## Checking the date information

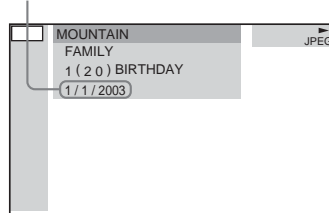
### (JPEG only)

You can check the date information during play when the Exif\* tag is recorded in the JPEG image data.

### Press DVD DISPLAY during play.

The Control Menu appears.

Date information



\* “Exchangeable Image File Format” is a digital camera image format defined by the Japan Electronics and Information Technology Industries Association (JEITA).

#### Note

If there is no date information or data is damaged on the disc, the system cannot display the date information.

#### Tip

You can change the date information order by selecting “JPEG DATE” setting in “CUSTOM SETUP” (see page 26).

## Optional Personal Computer

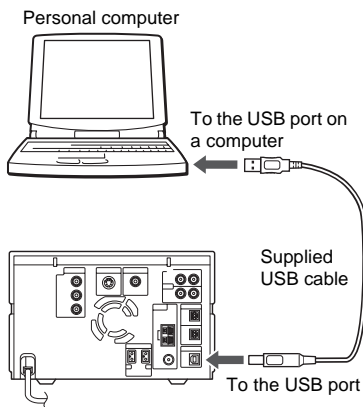
### Connecting a personal computer to the system

**When you connect a personal computer for the first time, use the supplied CD-ROM and install the software in the computer before connecting the supplied USB cable. See the supplied single page flyer for a simple explanation of how to install the software. Next, remove the label covering this system's USB jack and connect your computer to this system using the supplied USB cable.**

You can use this system's speakers to listen to songs played back from your computer's hard disk or CD-ROM drive. You can also use the installed M-crew software to control this system from your computer, or use the installed SonicStage for Sony Net MDs to transfer music data stored on your computer to MD.

#### Notes

- Be sure to use the dedicated software (M-crew or SonicStage for Sony Net MDs) supplied with this system.
- When you connect the supplied USB cable to your computer, a driver installation may start automatically. If a "File required" dialog box or other dialog box appears, reinstall the device driver.
- Disconnecting the USB cable is recommended while it is not in use.
- Even if you adjust the volume on the computer side, the system volume cannot be adjusted.
- When you connect the USB cable, the sound output destination switches from the computer to the system. To return the output destination to the computer, stop the track being played by the computer and disconnect the USB cable. To listen to a track stored on your computer with the system, the system must be set to the PC function.
- Operation is not guaranteed when using other than the supplied USB cable or when extending the cable with an extension connector, etc.



## About the supplied M-crew

M-crew is software that allows you to operate the system from a computer installed with the software and connected to the system through a USB cable. The operations you can perform are disc (DVD, etc.), MD and tuner playback, recording and editing, etc.

For details on the installation and basic operation of M-crew, refer to the supplied M-crew instruction manual (PDF). For details on the advanced operation of M-crew, refer to the online help for M-crew.

### **Note**

Be sure to install the M-crew software to your computer before connecting the system to your computer. If you are reinstalling the software, be sure to disconnect the USB cable before starting the installation.

## Listening to audio files on a personal computer

The supplied M-crew software allows you to play back music data in your personal computer that has been registered to M-crew, tune in Internet radio stations, and perform other operations using the system remote (PC LIBRARY CONTROL). Music data in your personal computer is registered to M-crew by computer operations. Also, you cannot play back tracks on the computer's hard disk or through the CD-ROM drive using the system remote. To play these tracks, operate the computer. However, note that M-crew cannot play tracks through the computer's CD-ROM drive.

Be sure to check that the system and the computer are connected correctly before performing M-crew operations.

### **1 Start up the M-crew software installed from the supplied CD-ROM.**

Refer to the supplied M-crew instruction manual (PDF) for the M-crew installation, startup and setup methods.

### **2 Press FUNCTION repeatedly to switch the function to PC.**

### 3 Press PC LIB repeatedly to select the following modes.

- **PC:** Personal computer operations. In this mode you can listen to music with general music playback software such as Windows Media Player. “PC” appears in the display. “PC” also appears during playback of audio files via M-crew.
- **MUSIC LIBRARY:** System remote operations. In this mode you can listen to music data (play list) registered to M-crew. When you press DISPLAY on the unit to switch to name display, the name of the track currently being played appears in the display.
- **WEB RADIO:** System remote operations. In this mode you can listen to Internet radio stations registered to M-crew. When you press DISPLAY on the unit to switch to name display, the name of the Internet radio station currently broadcasting appears in the display.

**Note**

The mode selection is valid only when M-crew is active. When M-crew is not active, you can start up general music playback software and listen to music using computer operations, regardless of the mode.

### 4 Press PC ►.

Music or radio playback starts in MUSIC LIBRARY or WEB RADIO mode selected in step 3.

**Note**

In WEB RADIO mode, the Internet Explorer connection setup and Internet connection must be made beforehand. The system and M-crew do not have dial-up or other Internet connection and disconnect functions. These Internet connection and disconnect operations should be done on the computer side.

**When using an Internet service with a contract where fees are based on connection time, be sure to remember to disconnect from the Internet after using WEB RADIO.**

### Remote operations in MUSIC LIBRARY and WEB RADIO modes

To	Do this
Stop playback	Press ■.
Pause playback	Press ■■ during playback. (This function may not work for some Internet radio stations depending on the transmission format.)
Select a track or an Internet radio station	Press ◀◀ or ▶▶.
Adjust the volume	Press VOLUME + or −.
Switch the display	Press DISPLAY on the unit.
Switch to PC function from another source*	Press PC ► in step 2 (Automatic Source selection).

\* While the Net MD function is on, you cannot switch the function.

**Tip**

You can also select the play list track number or radio station number using the number buttons instead of ◀◀ or ▶▶. To enter preset number 10 or higher, press >10 followed by the number button for the one’s digit. To enter 0, press 10/0.

## About the supplied SonicStage for Sony Net MDs


SonicStage for Sony Net MDs is a software application that utilizes Sony Corporation's copyright protection technology, "OpenMG". It allows users to store and play digital music content on the hard disk drive of a computer, and to transfer digital audio files from the hard drive to an MD (Check-Out) for portable listening.

For details on the installation and basic operation of SonicStage for Sony Net MDs, refer to the supplied SonicStage instruction manual (PDF). For details on the advanced operation of SonicStage for Sony Net MDs, refer to the online help for SonicStage for Sony Net MDs.

### Note

Be sure to install the SonicStage for Sony Net MDs software to your computer before connecting the system to your computer. If you are reinstalling the software, be sure to disconnect the USB cable before starting the installation.

### Notes

- While the Net MD function is on, you cannot change the sound source nor operate the system except for ejecting the MD with  (MD eject).
- You cannot use the Net MD function while the timer is on.
- When "Check USB" appears in the display, check the USB connection of the system and the personal computer.
- "CONNECT" appears in the display while you are checking-in/out tracks with SonicStage for Sony Net MDs. In this case, do not disconnect the supplied USB cable. For details on Check-In/Out, refer to the online help of SonicStage.
- While the Net MD function is on, the following functions are cancelled or the settings are cleared:
  - Repeat Play, Shuffle Play, Program Play
  - Group function
- When playing back these MDs on a system that does not support MDLP mode, set the transfer mode during SonicStage Check-Out to "Stereo Transfer". If transfer is performed in LP2 or LP4 mode, you will be unable to play back these MDs on a system that does not support MDLP mode.

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## Using SonicStage for Sony Net MDs

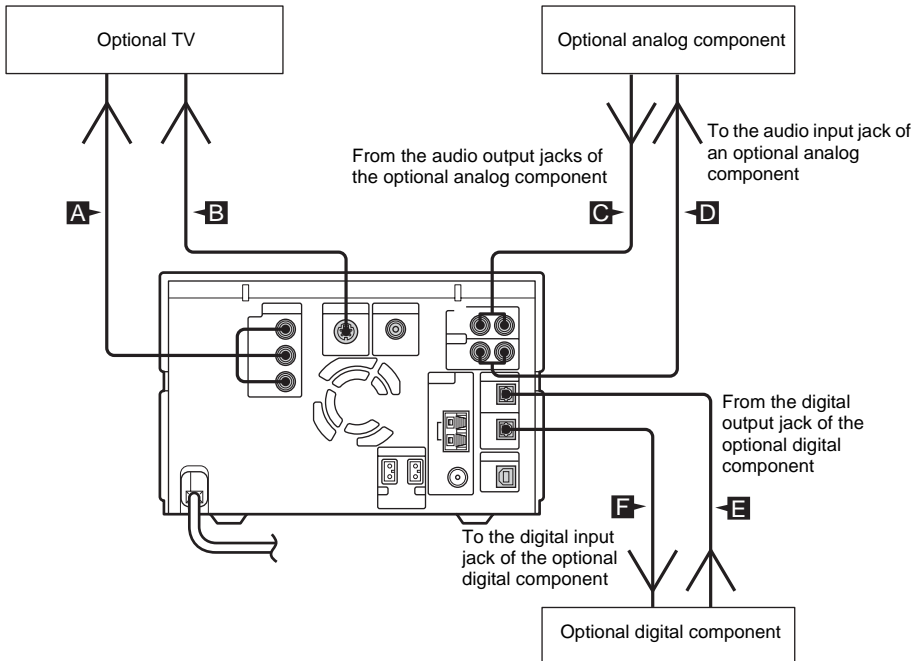
- 1 Press FUNCTION repeatedly to switch the function to MD.**
- 2 Press NET MD on the unit.**

The Net MD function is activated and "Net MD" appears.
- 3 Start up and operate SonicStage for Sony Net MDs on the personal computer.**
- 4 Quit SonicStage for Sony Net MDs after use.**
- 5 Press NET MD on the unit to turn off the Net MD function.**

## Optional Components

### Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.



#### **A** COMPONENT VIDEO OUT jacks\*

Use an optional video cord to connect a TV. If your TV accept progressive format file signals, you must use this connection and set “COMPONENT VIDEO OUT” to “PROGRESSIVE” in “Adjusting the TV screen” (page 28).

#### **B** S VIDEO OUT jack\*

Use an S video cord (not supplied) to connect an optional TV to this jack. You can enjoy higher quality video images.

#### **C** TAPE IN jacks

Use audio cords (not supplied) to connect an optional analog component (tape deck, etc.) to these jacks. You can then record or listen to the sound from the component.

#### **D** TAPE OUT jacks

Use audio cords (not supplied) to connect an optional analog component (tape deck, etc.) to these jacks. Sound is then output to the component.

## **E DIGITAL OPTICAL IN jack\*\***

Use a digital optical cable (square, not supplied) to connect an optional digital component (digital satellite tuner, etc.) to this jack. You can then record or listen to the sound from the component.

## **F DIGITAL OPTICAL OUT jack**

Use a digital optical cable (square, not supplied) to connect an amplifier, MD deck, or DAT deck with a digital optical input jack. Sound is then output when the system function is set to DVD or MD. By connecting this system to the optical input jack of the optional amplifier equipped with Dolby Digital or DTS decoder, you can enjoy the 5.1 channel sound. If the jack is covered with a cap, remove it before use.

\* Video signals are only output when the system function is set to DVD.

\*\* Set PCM to 32 kHz, 44.1 kHz or 48 kHz. (Optical input uses PCM only.)

## **Listening to audio from a connected component**

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### **Listening to a digital component (such as a satellite tuner)**

- 1 Connect an optical cable.**  
See “Hooking up optional components” on page 79.
- 2 Press FUNCTION repeatedly until “OPTICAL IN” appears.**  
Start playing the connected component.

---

### **Listening to an analog component (such as a tape deck)**

- 1 Connect the audio cords.**  
See “Hooking up optional components” on page 79.
- 2 Press FUNCTION repeatedly until “TAPE” appears.**  
Start playing the connected component.



## Enjoying the 5.1 channel sound with the optional amplifier

- 1 Connect the digital optical cable.**  
See “Hooking up optional components” on page 79.
- 2 Connect 6 speakers to an AV amplifier equipped with a decoder.**  
For the speaker placement, refer to the operating instructions supplied with the connected amplifier.
- 3 Switch the output to 5.1 channel Dolby Digital sound or 5.1 channel DTS sound.**  
See “Changing the sound (except for JPEG)” on page 23.

### Tip

You cannot use the virtual surround effect of this system.

## Recording between this system and optional components

### Making a digital recording from a digital component

The Serial Copy Management System (page 95) may prevent you from making a digital recording of certain material. In this case, connect the component to TAPE IN jacks and make an analog recording.

In addition, you cannot make a digital recording of sound encoded by other than PCM mode. Set optional digital components to PCM output\*.

\* The digital input is available for PCM 32kHz, 44.1 kHz and 48kHz.

- 1 Connect the digital optical cable.**  
See “Hooking up optional components” on page 79.
- 2 Start recording manually.**  
See “Recording on an MD manually” (page 42).

### Note

When Smart Space/Auto Cut is set to on, the recording pauses if no sound continues for 30 seconds or more (page 45).

### Tips

- You can activate Time Machine Recording (page 43).
- You can adjust the recording level when recording on an MD (page 46).

### Making an analog recording from an analog component

- 1 Connect the audio cords.**  
See “Hooking up optional components” on page 79.
- 2 Start recording manually.**  
See “Recording on an MD manually” (page 42).

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## **Recording on a connected component**

### **Making a digital recording**

- 1** Connect the digital optical cable.
- 2** Start recording.  
Refer to the operating instructions provided with connected component.

#### **Note**

You can digitally record from the discs only. However, you cannot record from copy prohibited discs.

### **Making an analog recording**

- 1** Connect the audio cord.
- 2** Start recording manually.  
Refer to the operating instructions provided with connected component.

## Troubleshooting

### Problems and remedies

Should you encounter a problem with your system, do the following:

- 1 Make sure the mains lead and speaker cords are correctly and firmly connected.
- 2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer. In case of repairing, please bring the entire system set (except for the speaker) to the service station.

#### When the I/⏻ indicator flashes

Immediately unplug the mains lead and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage? Check the voltage for your region, then make sure the voltage selector is set correctly.
- Are the + and – speaker cords short-circuited?
- Are you using the supplied speakers?
- Is anything blocking the ventilation holes on the rear of the system?

Check all the above items and fix any problems found. After I/⏻ indicator stops flashing, reconnect the mains lead and turn on the system. If the indicator still flashes, or if the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.

## General

### “OPEN” blinks.

- The lid of the unit is closed. Open the lid and check the display again.

### “– : – : –” appears in the display.

- A power interruption has occurred. Set the clock (page 10) and timer setting (pages 67 and 69) again.

### There is no sound.

- Press VOLUME +.
- Make sure the headphones are not connected.
- Check the speaker connections (page 8).
- The system is in pause mode or in slow-motion play mode. Press SA-CD/DVD ► to return to normal play mode.
- High-speed CD-MD Synchro Recording is underway.

### There is severe hum or noise.

- Move the system away from the source of noise.
- Connect the system to different mains.
- Install a noise filter (commercially available) to the mains lead.

### The timer cannot be set.

- Set the clock again (page 10).

### The timer does not function.

- Active the timer, and “⏻PLAY” or “⏻REC 1 – 3” lights up (pages 68 and 69).
- Check the timer setting and set the correct time (pages 68 and 69).
- Cancel the Sleep Timer Function (page 67).
- Turn off the power. When the system power is turned on, the timer does not function.

### The remote does not function.

- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system’s sensor.
- Replace the batteries (size AA/R6).
- Locate the system away from the fluorescent light.

### The buttons are disabled.

- Press Net MD on the unit to turn off the Net MD function while it is not in use.

### The system turned off automatically.

- Cancel the Sleep Timer Function (page 67).

### Sound is not normal.

- The speakers are not connected correctly. Connect the speakers cords correctly (page 8).

- As much as possible, place the speakers at the same height and same distance from your listening position.
- You have connected speakers other than the supplied speakers. Use the supplied speakers.

## **DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG player**

### **The disc tray does not open and “LOCKED” appears.**

- Contact your Sony dealer or local authorized Sony service facility.

### **The disc tray does not close.**

- Reinsert the disc in the center of the tray.
- Be sure to close the tray by pressing ▲ on the top of the unit. Closing the tray by hand may cause malfunction of the system.

### **The disc does not eject.**

- Consult your nearest Sony dealer.
- Select ■ using the MD stick to stop synchro recording, then press ▲ on the top of the unit.

### **Play does not start.**

- Press ▲ on the top of the unit and check whether a disc is loaded.
- Wipe the disc clean (page 93).
- Replace the disc.
- Place the disc that this system can play (page 5).
- Place the disc correctly.
- Load the disc in the player with the label side up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press SA-CD/DVD ► to start play.
- The region code on the DVD does not match the system.
- Cancel the Custom Parental Control function (page 30).

### **Disc access takes a long time.**

- Set “DVD POWER ON” by DVD power manage function (page 63).

### **Custom Parental Control is set but the display for entering the password does not appear.**

- Set the layer to be controlled using the Custom Parental Control settings.

### **The sound skips.**

- Wipe the disc clean (page 93).
- Replace the disc.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).

- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

### **Play does not start from the first track.**

- Press PLAY MODE repeatedly until both “PGM” and “SHUF” disappear to return to Normal Play.
- Resume Play has been selected. Press ■ in stop mode, then start playback (page 14).
- The title, DVD or PBC menu automatically appears on the screen.

### **Playback starts automatically.**

- The DVD features an auto playback function.

### **Playback stops automatically.**

- Some discs may contain an auto pause signal. While playing such a disc, the playback stops at the auto pause signal.

### **You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play, or Program Play.**

- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

### **Messages do not appear on the screen in the language you want.**

- Select the language you want for the on-screen display in “OSD” under “LANGUAGE SETUP” in the Setup Display (page 25).

### **The language for the sound track cannot be changed.**

- Multilingual tracks are not recorded on the DVD being played.
- The DVD prohibits changing the language for the sound track.

### **The subtitle language cannot be changed.**

- Multilingual subtitles are not recorded on the DVD being played.
- The DVD prohibits changing the subtitles.

### **The subtitle cannot be turned off.**

- The DVD prohibits turning off subtitles.

### **The angles cannot be changed.**

- Multi-angles are not recorded on the DVD being played.
- The DVD prohibits changing the angles.

### **MP3 audio track cannot be played back.**

- Recording was not performed according to the ISO9660 level 1/level 2 format, Joliet or Multi Session in the expansion format.
- The MP3 audio track does not have the extension “.MP3”.

- The data is not stored in MP3 format.
- Discs containing files other than MPEG 1 Audio Layer-3 files cannot be played.
- Remove the disc and select "CUSTOM SETUP" from the setup items. Then select "DATA CD PRIORITY" and set to "MP3" again (page 26).
- Playback is possible up to 8 levels.
- The maximum number of albums (99) or tracks (250) is exceeded (page 6).

---

#### **The JPEG image file cannot be played.**

- The DATA CD is not recorded in JPEG format that conforms to ISO9660 level 1/level 2, Joliet or Multi Session.
- The JPEG image file does not have the extension ".JPG" or ".JPEG".
- The data is not formatted in JPEG even though it has the extension ".JPG" or ".JPEG".
- JPEG files with a vertical width of only one dot and JPEG files with a horizontal width of more than 4720 dots cannot be displayed.
- Remove the disc and select "CUSTOM SETUP" from the setup items. Then select "DATA CD PRIORITY" and set to "JPEG" again (page 26).
- Playback is possible up to 8 levels.
- Progressive JPEG format files cannot be played on this system.
- The maximum number of albums (99) or files (250) is exceeded (page 6).

---

#### **The album title, track title and ID3 tag do not appear correctly.**

- Use a disc that conforms with ISO9660 level 1/level 2, Joliet or Multi Session in the expansion format.
- The ID3 tag displays only the track title information and applies only to version 1.

---

#### **The sound loses stereo effect when you play a VIDEO CD, CD, or MP3.**

- Set "AUDIO" to "STEREO" in the Control Menu display (page 23).

---

### **Picture**

---

#### **There is no picture.**

- Press FUNCTION repeatedly until "DVD" appears.
- Check that the system is connected securely.
- When you play a video CD, make sure you set the color system correctly, according to your TV (color) system.
- Make sure you turn on the TV and operate the TV correctly.

- Make sure you select the video input on the TV so that you can view the pictures from the system.
- "COMPONENT OUTPUT" in "SCREEN SETUP" is set to "PROGRESSIVE" even though the unit is connected to a TV that does not support the progressive (525p) format.  
Simultaneously press ▲ on the top of the unit, DISPLAY and VOLUME +. The "COMPONENT OUTPUT" setting returns to "INTERLACE".
- "COMPONENT OUTPUT" in "SCREEN SETUP" is set to "PROGRESSIVE".  
Set "COMPONENT OUTPUT" to "INTERLACE" (see page 28). If "PROGRESSIVE" is selected, no image signal will be output from the video output or S-Video output.

---

#### **Picture noise appears.**

- Try moving the system to a place without vibration.
- Clean the disc.
- The color system is different when playing a video CD. Set the color system to match your TV.
- If video from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV (page 8).
- Even though the unit is connected to a TV that supports the progressive (525p) format the picture is disturbed when "COMPONENT OUTPUT" in "SCREEN SETUP" is set to "PROGRESSIVE". Set "COMPONENT OUTPUT" to "INTERLACE" (see page 28).

---

#### **The aspect ratio of the screen cannot be changed even though you set "TV TYPE" in "SCREEN SETUP" in the Setup Display when you play a wide picture.**

- The aspect ratio is fixed on your DVD.
- Connections have not been made directly to this system's S-Video input. Connect the TV directly to this system.
- Depending on the TV, you may not change the aspect ratio.

---

#### **The system turned off during DVD playback.**

- If approximately one hour passes with DVD playback paused or with the DVD top menu or a DVD menu displayed during DVD playback, the system automatically turns off.

## MD deck

---

### An MD cannot be inserted.

- Insert the MD with the label side up and the arrow pointing toward the deck.

---

### The controls do not work.

- Replace the MD with a new one.
- Retry the operations after “TOC” turns off.
- If M-crew is active or present in the task tray at the bottom right of the screen, quit M-crew and then perform the operation.

---

### Play does not start.

- Replace the MD.
- Insert the MD and leave the system turned on for a few hours until the moisture evaporates.
- Press MD ► to start play.
- Press MD GROUP until “GROUP ON” disappears to cancel the Group Function.

---

### The sound skips.

- Replace the MD.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.
- Insert the disc and wait for 10 to 20 minutes with the system turned on.

---

### Play does not start from the first track.

- Press PLAY MODE repeatedly until both “PGM” and “SHUF” disappear to return to Normal Play.

---

### “OVER” appears.

- You have reached the end of the MD. Press and hold ◀◀ or press ◀◀ to return to the desired playing position.

---

### “OVER” lights up during recording.

- Adjust the recording level lower (page 46).

---

### Recording or editing was done, but the TOC is not updated.

- MD recording and editing contents are recorded to the MD when the MD is removed, so make sure you remove the MD after recording or editing (pages 38 and 48).

---

### The track is not deleted.

- Perform Check-In the track with SonicStage for Sony Net MDs and delete the track (page 78).

---

### Recording is not possible.

- Remove the MD and slide the tab to close the slot (page 38).

- Connect the optional component properly (page 79).
- Press FUNCTION repeatedly to select the recording source correctly.
- Replace with a recordable MD.
- Replace the MD with a recordable MD, or use the Erase Function to erase unnecessary tracks (page 54).
- Start recording again.
- Only the CD layer of Super Audio CDs can be recorded.

---

### Synchro recording is not possible.

- You cannot use the Synchro recording function with DVDs.

---

### The sound from an MD you recorded is too low (or too high).

- Adjust the recording level (page 46).

---

### High-speed CD-MD synchro recording is not possible and the system switches to normal-speed recording.

- High-speed CD-MD synchro recording is not available for discs other than CDs or the CD layer of Super Audio CD.
- Replace the disc.
- Change the installation position of the unit.

---

### Sound leaks when recording in LP4 stereo mode.

- Record in stereo or LP2 stereo mode. When recording the sound from a CD, tape or optional component with music or audio on only one channel in LP4 stereo mode, the sound may leak to the empty channel.

---

### Track numbers are not marked on recorded MDs.

- You are recording sound with a lot of noise. Adjust so that track numbers are marked correctly.

---

## Tuner

---

### Severe hum or noise/stations cannot be received. (“TUNED” or “STEREO” flashes in the display.)

- Set the proper band and frequency (page 62).
- Connect the antenna properly (page 8).
- Set “DVD POWER OFF” by DVD power manage function (page 63).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.

- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords as possible.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Try turning off surrounding electrical equipment.

**A stereo FM program cannot be received in stereo.**

- Press FM MODE until “MONO” disappears.

**Cyclical static noise is heard while recording on an MD.**

- Adjust the antenna orientation and position until the noise stops.

## Personal computer

**The sound is broken or the system becomes unstable.**

- Connect the USB cable directly from the system to the USB terminal of your computer.

**“Windows cannot locate the driver” appears.**

- Install the device driver.

**M-crew or SonicStage for Sony Net MDs does not start up.**

- The software may not operate properly depending on the USB host controller installed in your computer. The pertinent USB host controller as of October 2003 is the SiS7001 PCI to USB Open Host Controller.

## Optional components

**There is no sound.**

- Refer to General item “There is no sound.” (page 83) and check the condition of the system.
- Connect the component properly (page 79) while checking:
  - if the cords are connected properly.
  - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions supplied with the connected component and start playing.
- Check if proper function is selected. Press FUNCTION repeatedly until “TAPE” or “OPTICAL IN” appears.

**The sound is distorted.**

- Set the volume of the connected component lower.

---

**There is no sound from the MD player.**

- Perform playback with an MD player that supports MDLP recording.
  - Set the recording mode to stereo recording at normal speed or monaural recording, and perform recording again.
- 

**If the system still does not operate properly after performing the above measures, reset the system as follows:**

- 1 Disconnect the mains lead.
- 2 Reconnect the mains lead.
- 3 Press I/⏻ (power) to turn on the system.
- 4 Press I/⏻ (power), DISPLAY and ENTER/START on the unit at the same time.

The system is reset to the factory settings except for DVD settings. You should set the settings you made, such as the preset stations, clock, and timer.

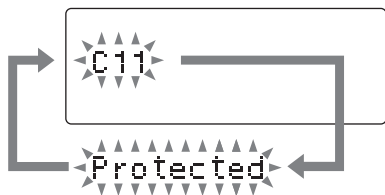
**To return the DVD setup to the default settings\*, perform reset as follows:**

- 1 Press DVD SETUP while the DVD function is in stop mode.
- 2 Press ▲ or ▼ repeatedly to select “RESET”, then press ENTER/YES.
- 3 Press ▲ or ▼ repeatedly to select “YES”, then press ENTER/YES.  
It takes a few seconds to complete. Do not press I/⏻ when resetting the system.

\* Except for Parental Control settings

## Self-diagnosis display

This system has a Self-diagnosis display function to let you know if there is a system malfunction. The display shows a code made up of three or five letters and a message alternately to show you the problem. To solve the problem refer to the following list. If a message appears in the display, be sure to open the lid of the unit and confirm the displayed message. If any problem persists, consult your nearest Sony dealer.



---

### C11/Protected

The MD is protected against erasure.

- Remove the MD and slide the tab to close the slot (page 38).

---

### C12/Cannot Copy

The sound you are trying to record is encoded in a format that this unit cannot record.

- Record sound output in a format that this unit can record.

---

### C13/REC Error

Recording could not be performed properly.

- Move the system to a stable place, and start recording over from the beginning.

The MD is dirty or scratched, or the MD does not meet the standards.

- Replace the MD and start recording over from the beginning.

---

### C13/Read Error

The MD deck cannot read the disc information properly.

- Remove the MD once, then insert it again.

---

### C14/TOC Error

The MD deck cannot read the disc information properly.

- Replace the MD.
- Erase all the recorded contents of the MD using the All Erase Function (page 55).

---

### C41/Cannot Copy

The sound source is a copy of a commercially available music software.

- The Serial Copy Management System prevents making a digital copy (page 95).

The sound you are trying to digitally record is encoded in a format that this unit is not compatible with.

- Record sounds encoded in a format that this unit can digitally record (see “Before you start recording” (page 37) and “Recording between this system and optional components” (page 81)).

---

### C71/Check OPT-IN

If the message disappears shortly after it is displayed, the interruption was caused by digital broadcasting signals, and the content of recording is not affected.

The digital optical cable is disconnected, or the power of the connected component is turned off while recording the digital audio from an optional component connected to the DIGITAL OPTICAL IN jack.

- Connect the digital optical cable, or turn on the power of the connected component.

---

### E0001/MEMORY NG

The component has internal problem.

- Consult your nearest Sony dealer.

---

### E0101/LASER NG

There is a problem with the laser pickup.

- The laser pickup may be damaged. Consult your nearest Sony dealer.

---

### E0201/LOADING NG

There is a problem with loading.

- Consult your nearest Sony dealer.
-



# Messages

One of the following messages may appear or flash in the display during operation. If a message appears in the display, be sure to open the lid of the unit and confirm the displayed message.

## DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG

### Cannot Play

- A disc that cannot be played was inserted (page 5).
- A disc with an unsupported Region code was inserted.

### Data Error

The JPEG file is an unsupported format.

### DVD Open

The disc tray is open.

### No Disc

There is no disc in the player.

### Not in Use

You pressed an invalid button.

### Open

Appears while the disc tray is opening.

### PASSWORD

Custom Parental Control or Parental Control is set.

### Play Limit

The MP3 file cannot be played.

### Please Wait

The function is switching to the DVD.

### Push STOP!

You pressed PLAY MODE during playback.

### Reading

The system is reading TOC information of the disc. Some buttons are not available.

### RESUME

You stopped play with Resume Play activated (page 14).

### Step Full!

You tried to program 26 or more tracks (steps).

## MD

### Analogue REC

The MD deck starts the analog recording.

### Assign None

All the tracks on an MD are registered into groups.

### Auto Cut

The MD deck is pausing the recording because silence continued for 30 seconds or more during digital recording.

### Blank Disc

The inserted recordable MD is new, or all tracks on the MD have been erased.

### Cannot Edit

- A pre-mastered MD is in the deck.
- You tried to edit in Program or Shuffle Play mode.
- The track is recorded in MDLP mode.

### Cannot REC

- A pre-mastered MD is in the deck.
- The function is switched to MD.

### Cannot SYNC!

- There is no disc in the MD deck, or the MD is protected against erasure.
- There is no time remaining on the MD.

### Complete!

The editing operation of the MD is completed.

### Disc Full!

There is no time remaining on the MD.

### Eject

The MD deck is ejecting the MD.

### Group Full!

An attempt was made to create a new group in excess of the maximum number of groups, or there are insufficient characters for updating the group management information.

### Impossible

- You tried to make an impossible editing operation.
- You cannot perform Net MD operations during timer playback.
- You cannot combine or erase the tracks due to the system limitations of MDs.

### Incomplete!

Adjustment of the recording level after recording or Fade-in and Fade-out procedures have failed since the system was either subject to vibration or there is a damaged or dirty disc in the tray.

---

**Initialize**

The power was off for a long time, so the system is initializing itself.

---

**Name Full!**

There is no more space to store track, disc or group titles.

---

**No Change**

While attempting to change the recording level after recording, you pressed ENTER/YES without actually changing the recording level, so no change was made.

---

**No Disc**

There is no disc in the MD deck.

---

**OVER**

You have reached the end of the MD while pressing ►► during pause mode.

---

**Push STOP!**

You pressed an invalid button during playback, pause, recording or recording pause.

---

**Reading**

The MD deck is reading the TOC information of the MD.

---

**—Rehearsal—**

The MD is playing the specified point for confirmation during the A-B Erase Function and the Divide Function (pages 55 and 58).

---

**Retry**

A reading failure has occurred, and the system is trying to read the data again.

---

**S.F Edit!**

You attempted to perform another operation while in S.F Edit (changing the recording level after recording, Fade-in, Fade-out) mode.

---

**S.F Edit NOW**

You pressed I/⏻ while in S.F Edit (changing the recording level after recording, Fade-in, Fade-out) mode.

---

**Smart Space**

The signal was input again after silence continued for 3 or more but less than 30 seconds during digital recording, and the silence was cut to 3 seconds.

---

**Step Full!**

You tried to program 26 or more tracks (steps).

---

**TOC Writing**

The MD deck is writing the information of recorded or edited contents.

---

**Track End**

You have reached the end of the track while adjusting the dividing point during the Divide Function.

---

**Tr Protected**

Tracks and other data that have been checked out on Net MD equipment are protected, so you cannot use some of the MD editing functions.

---

**Timer**

---

**OFF TIME NG!**

The Play Timer and the recording timer start and end times are set to the same time.

---

**OVERLAP!**

The Play Timer setting or the recording timer setting overlaps with part or all of another timer setting.

---

**PUSH SELECT!**

You tried to set the clock or timer during timer operation.

---

**SET CLOCK!**

You tried to select the timer with the clock not set.

---

**SET TIMER!**

You tried to select the timer with the timer not set.

---

**Optional personal computer**

---

**Buffer>>\*\*\*%**

The personal computer is preparing the amount of data needed for playback while using the WEB RADIO function.

---

**Busy NOW!**

You pressed NET MD on the unit during Check-In or Check-Out. Wait until the operation is completed.

---

**Cannot Pause**

You tried to pause a music file or a broadcast station that cannot be paused while using the MUSIC LIBRARY or WEB RADIO function.

---

**Cannot Play**

You tried to play the music file that cannot be played while using the MUSIC LIBRARY function.

---

**Check USB**

The USB cable is not connected properly. Check the connection.

---

**CONNECT**

Check-In and Check-Out is underway.

---

**Connecting**

The personal computer is connecting to the broadcast station server while using the WEB RADIO function.

---

**Disconnect**

You were disconnected from the broadcast station server while using the WEB RADIO function.

---

**Net MD**

The Net MD function is on.

---

**No Track**

The music file is not registered to the MUSIC LIBRARY.

---

**No URL**

The URL is not registered to the WEB RADIO.

---

**Not Found**

The personal computer could not connect to the broadcast station server while using the WEB RADIO function.

---

**PC Soft Off**

M-crew is not active.

---

## Additional Information

# Precautions

The nameplate is located on the bottom exterior.

### On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet (mains), even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the power cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord (mains) must be changed only at the qualified service shop.

### On placement

- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
  - Extremely hot or cold
  - Dusty or dirty
  - Very humid
  - Subject to vibrations
  - Subject to direct sunlight
- Use caution when placing the unit or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

### On heat buildup

- Although the system heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat buildup in the system.
- If you continuously use this system at a high volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

### In case color irregularity is observed on nearby a TV screen

With the magnetically shielded type of speaker system, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

### If color irregularity is observed...

Turn off the TV set once, then turn it on after 15 to 30 minutes.

### If color irregularity is observed again...

Place the speakers farther away from the TV set.

### IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

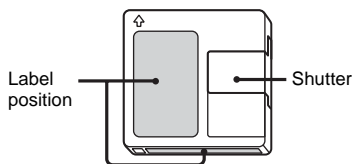
### On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the DVD player. Should this occur, the system will not operate properly. Remove the disc and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any disc or MD.

If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

## Notes on MDs

- Do not open the shutter to expose the MD. Close the shutter immediately if the shutter opens.
- Affix the label supplied with the disc only to the specified label indentation. Do not affix the label around the shutter or in other locations. Note that the shape of the indentation depends on the disc.



- Wipe the disc cartridge with a dry cloth to remove dirt.
- Do not expose the MD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

## Notes on discs

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.
- When using discs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the disc or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the disc, and may also cause this unit to malfunction. Be sure to check that the label side of the disc is not sticky before using.  
The following types of disc should not be used:
  - Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
  - Discs that have labels printed using a special ink that feels tacky when touched.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

## Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as thinner, benzine or alcohol.

## Disc cleaning

Do not use a commercially available CD/DVD lens cleaning disc with this system, as this may result in malfunction.

## System limitations of MDs

The recording system in your MD deck has the limitations described below.

Note, however, that these limitations are due to the inherent nature of the MD recording system itself, not to mechanical causes.

### **“Disc Full!” appears before the MD has reached the maximum recording time**

When 255 tracks have been recorded on the MD, “Disc Full!” appears regardless of the total recorded time. More than 255 tracks cannot be recorded on the MD. To continue recording, erase unnecessary tracks or use another recordable MD.

### **“Disc Full!” appears before the maximum number of tracks (255) is reached**

Fluctuations in emphasis within tracks are sometimes interpreted as track intervals, increasing the track count and causing “Disc Full!” to appear.

### **“Group Full!” appears in the display**

- When the Group Function is on, “Group Full!” may be displayed if editing is performed. This means there are insufficient characters for group management. Delete any unnecessary disc titles, group titles or other characters.
- Even when the Group Function is off, the group management information is updated automatically when Move, Divide and other editing operations are performed, so “Group Full!” may be displayed.

### **The remaining recording time does not increase even after erasing numerous short tracks**

Tracks shorter than 12 seconds\* are not counted, so erasing them may not increase the recording time.

\* During Stereo recording.

In Monaural or LP2 stereo mode: about 24 seconds

In LP4 stereo mode: about 48 seconds.

### **“Impossible” appears when you use A-B Erase Function or Combine Function**

This happens when you have edited the same track many times. This is due to a technical limitation of the MD system and is not a mechanical error.

### **The total recorded time and the remaining time on the MD do not add up to the maximum recording time**

Recording is done in minimum units of 2 seconds\* each, no matter how short the material. The recorded contents may be shorter than the maximum recording capacity. Disc space may also be reduced by scratches.

\* During Stereo recording.

In Monaural or LP2 stereo mode: about 4 seconds

In LP4 stereo mode: about 8 seconds

### **The sound may drop-out while searching the edited tracks**

Tracks created through editing may exhibit sound dropout during searching because high-speed playback requires time to search for the position on the disc when the tracks are not in order.

### **Track numbers cannot be marked**

Even in the Level Synchro Recording, the track numbers may not be marked at the beginning of the track:

- if the input signal is below a certain fixed level for less than 2 seconds between tracks.
- if the input signal is below a certain fixed level for more than 2 seconds in the middle of the track.
- if you record a track that is 4 seconds or less\*.

\* During Stereo, Monaural or LP2 stereo recording mode (In LP4 stereo recording mode: 8 seconds or less).

### **Extra tracks are created**

When there is a long silence between CD tracks, an extra track may be created.

### **The number of tracks on the CD and the recorded MD is different**

When there are short tracks on the CD, track numbers may not be marked for these tracks, and the number of tracks recorded on the MD may differ from that of the CD.

**Guide to the Serial Copy Management System**

Digital audio components, such as CDs, MDs, and DATs let you copy music easily with high quality by processing music as a digital signal.

To protect the copyrighted music programs, this system uses the Serial Copy Management System that allows you to make only a single copy of a digitally recorded source through digital-to-digital connections.

**You can make only a first generation copy\* through a digital-to-digital connection.**

For example:

- 1 You can make a copy of a commercially available digital sound program (for example, a CD or MD), but you cannot make a second copy from the first-generation copy.
- 2 You can make a copy of a digital signal from a digitally recorded analog sound program (for example, an analog record or a music cassette tape) or from a digital satellite broadcast program, but you cannot make a second copy.

\* A first-generation copy means a digital recording of a digital signal made on digital audio equipment. For example, if you record from this system's DVD player to the MD deck, you make a first-generation copy.

**Specifications**

**Main Unit (HCD-SE7)**

**Amplifier section**

- DIN power output (rated): 20 + 20 W  
(6 ohms at 1 kHz, DIN)
- Continuous RMS power output (reference):  
25 + 25 W  
(6 ohms at 1 kHz,  
10% THD)
- Music power output (reference):  
45 + 45 W

**Inputs**

- TAPE IN (phono jack):  
Voltage 250 mV,  
impedance 47 kilohms

**DIGITAL OPTICAL IN:**

- Supported sampling  
frequencies: 32 kHz,  
44.1 kHz and 48 kHz  
(PCM only)

**Outputs**

- TAPE OUT (phono jacks):  
Voltage 250 mV,  
impedance 1 kilohm
- DIGITAL OPTICAL OUT:  
Optical  
Wavelength: 660 nm
- PHONES (stereo mini phone jack):  
Accepts headphones of  
16 ohms or more
- VIDEO OUT (phono jack):  
Max. output level  
1 Vp-p, unbalanced, Sync  
negative, load impedance  
75 ohms
- S-VIDEO OUT (4-pin/mini-DIN jack):  
Y: 1 Vp-p, unbalanced,  
Sync negative  
C: 0.286 Vp-p, load  
impedance 75 ohms
- COMPONENT VIDEO OUT:  
Y: 1 Vp-p, 75 ohms  
P<sub>B</sub>, P<sub>R</sub>: 0.7 Vp-p, 75 ohms

**DVD player section**

- System  
Compact disc, digital  
audio and video system  
and Super Audio CD

Laser	Semiconductor laser (DVD: $\lambda=650$ nm, CD: $\lambda=780$ nm) Emission duration: continuous
Frequency response	DVD (PCM 48 kHz): 2 Hz – 22 kHz CD: 2 Hz – 20 kHz Super Audio CD: 2 Hz – 50 kHz
Video color system format:	NTSC, PAL

### Tuner section

FM stereo, FM/AM superheterodyne tuner

#### FM tuner section

Tuning range	87.5 – 108.0 MHz (50 kHz step)
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Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

#### AM tuner section

Tuning range	530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
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Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

### MD deck section

System	Minidisc digital audio system
Laser	Semiconductor laser ( $\lambda=780$ nm) Emission duration: continuous
Sampling frequency	44.1 kHz
Frequency response	5 Hz – 20 kHz

### Speaker (SS-CSE7W)

Speaker system	2-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units	
Woofer:	9 cm, cone type
Tweeter:	2.5 cm, balanced drive type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 135 × 330 × 215 mm
Mass	Approx. 2.7 kg net per speaker

### General

Power requirements	220 – 240 V AC, 50/60 Hz
Power consumption	
DVD player/MD deck/Tuner:	70 W
	0.3 W or less (in Power Saving mode)

Dimensions (w/h/d)	
DVD player/MD deck/Tuner:	Approx. 215 × 142 × 334 mm

Mass	
DVD player/MD deck/Tuner:	Approx. 6.2 kg
Supplied accessories:	Remote Commander (1) Batteries (2) Video cord (1) AM loop antenna (1) FM lead antenna (1) USB cable (1) Operating Instructions (1) M-crew/SonicStage for Net MD CD-ROM (1)

Design and specifications are subject to change  
without notice.



## Language code list








For details, see pages 23 and 25.

The language spellings conform to the ISO639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language
1027	Afar	1245	Inupiak	1489	Russian
1028	Abkhazian	1248	Indonesian	1491	Kinyarwanda
1032	Afrikaans	1253	Icelandic	1495	Sanskrit
1039	Amharic	1254	Italian	1498	Sindhi
1044	Arabic	1257	Hebrew	1501	Sangho
1045	Assamese	1261	Japanese	1502	Serbo-Croatian
1051	Aymara	1269	Yiddish	1503	Singhalese
1052	Azerbaijani	1283	Javanese	1505	Slovak
1053	Bashkir	1287	Georgian	1506	Slovenian
1057	Byelorussian	1297	Kazakh	1507	Samoa
1059	Bulgarian	1298	Greenlandic	1508	Shona
1060	Bihari	1299	Cambodian	1509	Somali
1061	Bislama	1300	Kannada	1511	Albanian
1066	Bengali; Bangla	1301	Korean	1512	Serbian
1067	Tibetan	1305	Kashmiri	1513	Siswati
1070	Breton	1307	Kurdish	1514	Sesotho
1079	Catalan	1311	Kirghiz	1515	Sundanese
1093	Corsican	1313	Latin	1516	Swedish
1097	Czech	1326	Lingala	1517	Swahili
1103	Welsh	1327	Laothian	1521	Tamil
1105	Danish	1332	Lithuanian	1525	Telugu
1109	German	1334	Latvian; Lettish	1527	Tajik
1130	Bhutani	1345	Malagasy	1528	Thai
1142	Greek	1347	Maori	1529	Tigrinya
1144	English	1349	Macedonian	1531	Turkmen
1145	Esperanto	1350	Malayalam	1532	Tagalog
1149	Spanish	1352	Mongolian	1534	Setswana
1150	Estonian	1353	Moldavian	1535	Tonga
1151	Basque	1356	Marathi	1538	Turkish
1157	Persian	1357	Malay	1539	Tsonga
1165	Finnish	1358	Maltese	1540	Tatar
1166	Fiji	1363	Burmese	1543	Twi
1171	Faroese	1365	Nauru	1557	Ukrainian
1174	French	1369	Nepali	1564	Urdu
1181	Frisian	1376	Dutch	1572	Uzbek
1183	Irish	1379	Norwegian	1581	Vietnamese
1186	Scots Gaelic	1393	Occitan	1587	Volapük
1194	Galician	1403	(Afan) Oromo	1613	Wolof
1196	Guarani	1408	Oriya	1632	Xhosa
1203	Gujarati	1417	Punjabi	1665	Yoruba
1209	Hausa	1428	Polish	1684	Chinese
1217	Hindi	1435	Pashto; Pushto	1697	Zulu
1226	Croatian	1436	Portuguese	1703	Not specified
1229	Hungarian	1463	Quechua		
1233	Armenian	1481	Rhaeto-Romance		
1235	Interlingua	1482	Kirundi		
1239	Interlingue	1483	Romanian		

# List of items that can be displayed and selected by disc type

When you press DVD DISPLAY, the following control menu items are displayed.

	Control Menu items	Function
	<b>DISC</b>	Displays the disc name inserted into the system. Selects the disc to be played.
	<b>TITLE</b> (DVD only) <b>SCENE</b> (VIDEO CD in PBC playback only) <b>TRACK</b> (VIDEO CD only)	Selects the title (DVD), the scene (VIDEO CD in PBC Playback), the track (VIDEO CD) to be played.
	<b>CHAPTER</b> (DVD only) <b>INDEX</b> (VIDEO CD only)	Selects the chapter (DVD) or the index (VIDEO CD) to be played.
	<b>ALBUM</b> (MP3 only)	Selects the album (MP3) to be played.
	<b>TRACK</b> (CD/Super Audio CD/MP3 only)	Selects the track (CD/Super Audio CD/MP3) to be played.
	<b>INDEX</b> (CD/Super Audio CD only)	Selects the index (Super Audio CD) to be played. (For CD, index only is displayed.)
	<b>TIME</b>	Checks the elapsed time and the remaining playback time. Inputs the time code for picture and music searching.
	<b>AUDIO</b> (except for JPEG)	Changes the audio language while playing a disc recorded with multilingual audio tracks.
	<b>SUBTITLE</b> (DVD only)	Displays the subtitles. Changes the subtitle language.
	<b>ALBUM</b> (JPEG only)	Selects the album (JPEG) to be played.
	<b>FILE</b> (JPEG only)	Selects the file (JPEG) to be played.
	<b>DATE</b> (JPEG only)	Displays the date information.
	<b>ANGLE</b> (DVD only)	Changes the angle.
	<b>PLAY MODE</b> (except for DVD*)	Changes the play mode (Normal Play/Shuffle Play/Program Play) for the disc currently loaded to the system.
	<b>REPEAT</b>	Plays the entire disc (all titles/all tracks/all files), one title/chapter/album/track or contents of program repeatedly.
	<b>CUSTOM PARENTAL CONTROL</b>	Sets the disc to prohibit playback.

\* For JPEG files, Normal Play mode only is available.

## Tips

- Each time you press DVD DISPLAY, the Control Menu display changes cyclically as follows:  
Control Menu display → Control Menu display off
- The Control Menu items differ depending on the disc.
- The “REPEAT” indicator lights up in green when you select any item except “OFF”.
- The “ANGLE” indicator lights up in green only when multiple angles are recorded on the disc.

## System setup item list

When you press DVD SETUP, the following settings are displayed.

The default settings are underlined.

### LANGUAGE SETUP (page 25)

OSD	Select the language you want to use from the displayed language list.
DVD MENU	Select the language you want to use from the displayed language list.
AUDIO	Select the language you want to use from the displayed language list.
SUBTITLE	Select the language you want to use from the displayed language list.

### SCREEN SETUP (page 27)

TV TYPE	<u>16:9</u> 4:3 LETTER BOX 4:3 PAN SCAN
SCREEN SAVER	<u>ON</u> OFF
BACKGROUND	<u>JACKET PICTURE</u> GRAPHICS BLUE BLACK
COMPONENT OUT	<u>INTERLACE</u> PROGRESSIVE

### CUSTOM SETUP (pages 25, 30)

VCD COLOR SYSTEM	<u>AUTO</u> PAL NTSC
PARENTAL CONTROL→	
TRACK SELECTION	<u>OFF</u> AUTO
AUDIO DRC	OFF <u>STANDARD</u> MAX
DATA CD PRIORITY	<u>MP3</u> JPEG

JPEG DATE	<u>MM/DD/YYYY</u> YYYY/MM/DD DD/MM/YYYY YYYY/DD/MM
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### SPEAKER SETUP (page 33)

LFE	<u>ON</u> OFF
-----	------------------

### RESET

YES
NO

# Glossary

## Album

Section of a music piece on a data CD containing MP3 audio tracks or JPEG image files.

## Auto Pause

An automatic pause may occur according to the signal encoded on the disc while playing a VIDEO CD. If the DVD player does not resume play for a long time, press SA-CD/DVD ► to resume play manually.

## Chapter

Subdivision of a title on a DVD. A title is composed of several chapters.

## Check-Out/Check-In

Check-Out is used to transfer music data at high speed from your computer to an MD component. Check-In is used to “return” that data back to the original computer. You cannot Check-In to a different computer.

## Dolby Digital

This sound format for movie theatres is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range and a subwoofer channel for deep bass is independently provided. This format is also called “5.1” because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

## DTS

Digital audio compression technology developed by Digital Theater Systems, Inc. This technology conforms to 5.1-channel surround. The surround channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. Good channel separation is realized because data for all channels is recorded separately and digitally processed.

## DVD

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.

The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

## File

Section of a picture on a data CD containing JPEG image files.

## Film based software, Video based software

DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theatres. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

## Index (CD/Super Audio CD) / Video Index (VIDEO CD)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes may be recorded.

## Interlace format

Interlace format shows every other line of an image as a single “field” and is the standard method for displaying images on television. The even number field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

**MDLP**

Technology for doubling (LP2) or quadrupling (LP4) the recording time for a single MD. MDs recording using this technology cannot be played back on MD decks without the MDLP logo (MD decks that do not support MDLP mode).

**Menu Playback**

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

**Multi-angle function**

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVDs.

**Multilingual function**

Several languages for the sound or subtitles in a picture are recorded on some DVDs.

**Net MD**

An MD expansion standard that allows high-speed transfer of music data stored on a computer to the MD deck.

**Parental Control**

A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country/region. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

**Playback Control (PBC)**

Signals encoded on VIDEO CDs (Version 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

This system conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

**VIDEO CDs without PBC functions  
(Ver. 1.1 discs)**

Enjoy video playback (moving pictures) as well as music.


**VIDEO CDs with PBC functions  
(Ver. 2.0 discs)**

Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

**Progressive format**

Compared to the Interlace format that alternately shows every other line of an image (field) to create one frame, the Progressive format shows the entire image at once as a single frame. This means that while the Interlace format can show 30 frames (60 fields) in one second, the Progressive format can show 60 frames in one second. The overall picture quality increases and still images, text, and horizontal lines appear sharper. This player is compatible with 525 progressive format.

**Region Code**

This system is used to protect copyrights. A region number is allocated on each DVD system or DVD disc according to the sales region. Each region code is shown on the system as well as on the disc packaging. The system can play the discs that match its region code. The system can also play discs with the “” mark. Even when the region code is not shown on the DVD, the region limit may still be activated.

**Scene**

On a VIDEO CD with PBC functions (page 15), the menu screens, moving pictures, and still pictures are divided into sections called “scenes”. Each scene is assigned a scene number enabling you to locate the scene you want.

**Super Audio CD**

Super Audio CD is a new high quality audio disc standard that records using the DSD (Direct Stream Digital) format instead of the PCM format used for current CDs, etc. The DSD format has a sampling frequency 64 times that of current CDs, and uses 1-bit quantization to ensure a sufficient dynamic range and more faithfully reproduce the original sound over a vastly wider playback range and audible range than current CDs.

There are various types of Super Audio CD as follows.

- **Super Audio CD (single layer disc)**  
Discs with only a single HD (high density) layer (high density signal layer for Super Audio CD)
- **Super Audio CD (dual layer disc)**  
Discs with two HD layers that allow long-time playback. These discs have a two-layer structure but only one side is read, so there is no need to turn over the disc.
- **Super Audio CD+CD (hybrid disc)**  
Two-layer discs with a HD layer and a CD layer. These discs have a two-layer structure but only one side is read, so there is no need to turn over the disc. In addition, the CD layer contents can be played even by a normal CD player.
- **Two-channel + multi-channel Super Audio CD discs**  
Super Audio CD discs with both a two-channel area and a multi-channel area recorded in the HD layer.

### Title

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

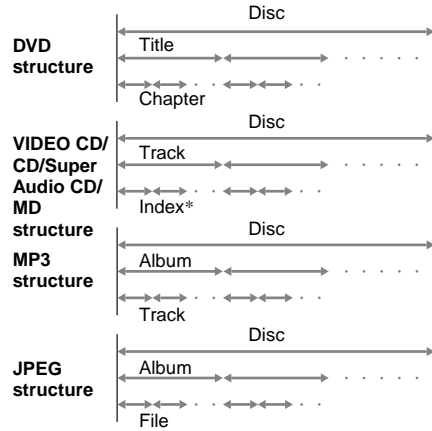
### TOC

The area where the MD track numbers (track order), track start/end points and other information is managed. This is separate from the music area.

### Track

Sections of a picture or a music piece on a CD, VIDEO CD, Super Audio CD, Super Audio CD, MP3, JPEG or MD. Each track is assigned a

track number enabling you to locate the track you want.



\* There is no index on MDs.

### VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

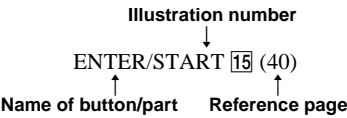
- **Version 1.1:** You can play only moving pictures and sounds.
- **Version 2.0:** You can play high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

# List of button locations and reference pages

## How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.



## Main unit

### ALPHABETICAL ORDER

#### A - M

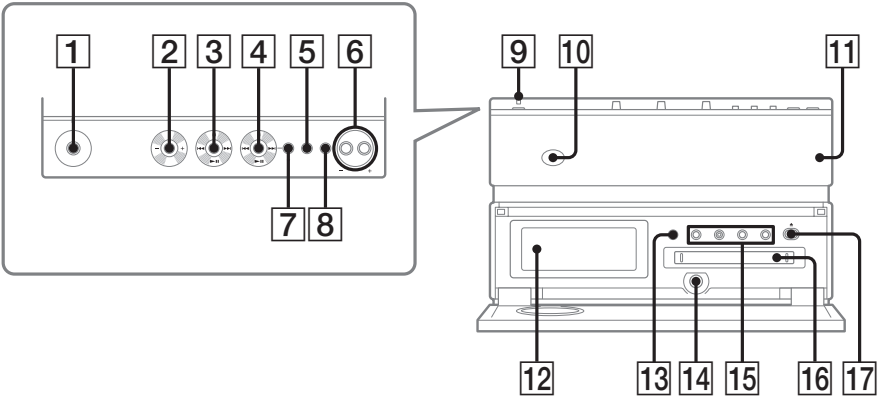
- AM **2** (62, 64)
- Disc tray cover **11** (12)
- DISPLAY **8** (36, 43, 70, 71, 73, 77)
- Display window **12**
- ENTER/START **15** (40)
- FM **2** (62, 64)
- FUNCTION **5** (11, 34, 35, 36, 42, 43, 44, 46, 50, 52, 53, 55, 56, 57, 58, 60, 78, 80)
- MD stick **3** (10)
- MD slot **16**
- SYNCHRO MODE **15** (40)

#### N - Z

- NET MD **13** (78)
- PHONES jack **14**
- REC MODE **15** (39, 42, 43)
- REC/REC IT **15** (42, 43, 44, 46)
- Remote sensor **10**
- SA-CD/DVD stick **4** (10)
- TUNER stick **2** (10)
- VOLUME +/- **6** (67, 77)

### BUTTON DESCRIPTIONS

- I/⏻ (power) **1** (9, 38, 48, 68, 87)
- I/⏻ indicator **9**
- ⬆ (disc eject) **7** (12)
- +/- **2** (62)
- (stop) **3** **4** (13, 29, 34, 40, 77, 84)
- ⏮/⏭ (go back/go forward) **3** **4** (13, 35, 50, 66, 77)
- ⏮ (play/pause) **3** **4** (13, 28, 34, 42, 43)
- ⬆ (MD eject) **17** (35, 38, 48)



Additional Information

continued

## Remote control

### ALPHABETICAL ORDER

#### A - F

ALBUM +/- [7] (13, 16, 19)  
 ANGLE [4] (27)  
 AUDIO [4] (23)  
 BASS/TREBLE [8]  
 CLEAR [16] (18, 19, 22, 36, 51, 65)  
 CLOCK/TIMER SELECT [13] (68, 69)  
 CLOCK/TIMER SET [13] (10, 67, 69)  
 DBFB [8] (66)  
 DISPLAY [3]  
 DVD DISPLAY [7] (13, 16, 18, 21, 23, 27, 29, 73, 74, 98)  
 DVD MENU [7] (15)  
 DVD SETUP [7] (11, 25, 27, 30, 33, 87, 99)  
 DVD TOP MENU [7] (15)  
 ENTER/YES [7] (10, 15, 16, 18, 19, 21, 23, 27, 29, 33, 35, 44, 46, 51, 52, 53, 55, 56, 57, 58, 60, 62, 87)  
 FM MODE [17] (64)  
 FUNCTION [6] (11, 13, 19, 34, 35, 36, 42, 43, 44, 46, 50, 52, 53, 55, 56, 57, 58, 60, 76, 78, 80)

#### G - Z

GROUP SKIP [9] (36, 40, 43, 44, 51, 53)  
 MD GROUP [9] (36, 40, 43, 44, 49, 51, 52, 53)  
 MENU/NO [12] (44, 46, 52, 53, 54, 56, 57, 58, 60, 62, 65)  
 NAME EDIT/SELECT [5] (50, 65)  
 Number buttons [15] (14, 15, 20, 22, 27, 29, 35, 51, 64, 77)  
 PC LIB [5] (77)  
 PLAY MODE [14] (13, 19, 34, 35, 48, 60)  
 REPEAT [17] (17, 20, 35)  
 SLEEP [2] (67)  
 SOUND FIELD [8] (66)  
 SUBTITLE [4] (25)  
 TUNER/BAND [18] (62, 64)  
 TUNING +/- [10]  
 TUNING MODE [14] (62, 64)  
 VOLUME +/- [19] (67, 77)

### BUTTON DESCRIPTIONS

I/⏻ (power) [1] (9, 38, 48, 68, 87)  
 MD ► (play) [18] (34, 42)  
 PC ► (play) [18] (77)  
 SA-CD/DVD ►/SELECT (play) [18] (13, 28, 43)  
 || (pause) [18] (13, 34, 43, 77)  
 ■ (stop) [18] (13, 29, 34, 40, 77)  
 ⏮/⏪/⏩/⏭ [7] (11, 15, 23, 87)  
 ◀◀/▶▶ (rewind/fast forward) [10] (13, 35)  
 ◀◀◀/▶▶▶ (go back/go forward) [10] (13, 34, 50, 77)  
 ◀◀/▶▶ (slow review/slow play) [10] (13)  
 RETURN ↻ [11] (15, 29)

